

**Volume**

**#**

**R0355**

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25.5 -

PRELIMINARY OATHS OF ASSISTANTS.

and

We, ..... do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chainman.

, Chainman.

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



WE, ..... and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman.

, Moundman.

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



WE, ..... and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



I, ..... , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .....

, Flagman.

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



## BOOK A-355

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**PRELIMINARY OATHS OF ASSISTANTS.**

WE, ..... and .....

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., *Chairman.*

....., *Chairman.*

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



WE, ..... and .....

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., *Moundman.*

....., *Moundman.*

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



WE, ..... and .....

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., *Axman.*

....., *Axman.*

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



I, ..... , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .....

....., *Flagman.*

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



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## PRELIMINARY OATHS OF ASSISTANTS.

WE, ..... and ..... do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



WE, ..... and ..... do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



WE, ..... and ..... do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



I, ..... , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



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**PRELIMINARY OATHS OF ASSISTANTS.**

WE, ..... and ..... do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., *Chainman.*

....., *Chainman.*

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



WE, ..... and ..... do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., *Moundman.*

....., *Moundman.*

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



WE, ..... and ..... do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., *Axman.*

....., *Axman.*

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



I, ..... , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., *Flagman.*

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



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## PRELIMINARY OATHS OF ASSISTANTS.

WE, ..... and .....  
 do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chairman.

....., Chairman.

Subscribed and sworn to before me this ..... }  
 day of ..... , 190 }



WE, ..... and .....  
 do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this ..... }  
 day of ..... , 190 }



WE, ..... and .....  
 do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this ..... }  
 day of ..... , 190 }



I, ..... , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this ..... }  
 day of ..... , 190 }



4-679.

"A"

BOOK A-355

FILED  
DEC 11 1909  
W.H.B.

# FIELD NOTES

RETRACEMENT  
OF THE SURVEY OF THE

M.S.C.

E A S T   B O U N D A R Y

of

TOWNSHIP NO. 35 SOUTH, RANGE NO. 17 WEST,

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,

Under his Contract No. 313, dated April 5, 1909

Retracement

Survey commenced May 31, 1909

Retracement

Survey completed June 1, 1909

6-151

Revised, 6.00 00

## NAMES AND DUTIES OF ASSISTANTS.

Earl W. Woolley, Chainman

Claude L. Heist, "

W. Warren Stratton Moundman

Sterling Wright, "

Joseph D. Foster, Axman

Rodney B. Shelley, Flagman

BOOK A-355

INDEX DIAGRAM.

Township \_\_\_\_\_, Range \_\_\_\_\_

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Meanders Page \_\_\_\_\_

## PRELIMINARY OATHS OF ASSISTANTS.

Earl V. Woolley

and Claude L. Heist

WE,

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

retracement N.Bdy.T.35 S., R. 17 W.; W. and N.Bdys.T.34 S., R. 18 W.; N. and W.Bdys.T.35 S., R. 13 W.; W.Bdy.T.35 S., R. 14 W.; S. and W.Bdys. T.32 S., R. 14 W.; and S. and E.Bdys.T.34 S., R. 12 W.; and the resurvey of N.Bdy.T.35 S., R. 17 W.; N. and W.Bdys.T.35 S., R. 18 W.; E. and W. Bdys' T.35 S., R. 13 W.; S.Bdy. T. 36 S., R. 15 W.; and the W. and N.Bdys. T.32 S., R. 14 W. of the Salt Lake Base and Meridian, Utah,

Subscribed and sworn to before me this 31

day of May, 1909.



U.S. Deputy Surveyor.

WE, W. Warren Stratton

*Frank T. Roberts*

and Sterling Wright

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

retracement N.Bdy.T.35 S., R. 17 W.; W. and N.Bdys.T.34 S., R. 18 W.; N. and W.Bdy.T.35 S., R. 13 W.; W.Bdy.T.35 S., R. 14 W.; S. and W.Bdys. T.32 S., R. 14 W.; and S. and E.Bdys.T.34 S., R. 12 W.; and the resurvey of N.Bdy.T.35 S., R. 17 W.; N. and W.Bdys.T.35 S., R. 18 W.; E. and W. Bdys' T.35 S., R. 13 W.; S.Bdy. T. 36 S., R. 15 W.; and the W. and N.Bdys. T.32 S., R. 14 W. of the Salt Lake Base and Meridian, Utah,

day of May, 1909.



U.S. Deputy Surveyor.

WE, I, Joseph D. Foster

*Frank T. Roberts*

do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given me, to the best of my skill and ability, in the survey of

retracement E.Bdy.T.35 S., R. 17 W.; W. and N.Bdys.T.34 S., R. 18 W.; N. and W.Bdys.T.35 S., R. 13 W.; W.Bdy.T.35 S., R. 14 W.; S. and W.Bdy. T.32 S., R. 14 W.; and S. and E.Bdys.T.34 S., R. 12 W.; and the resurvey of N.Bdy.T.35 S., R. 17 W.; N. and W.Bdys.T.35 S., R. 18 W.; E. and W. Bdys.T.35 S., R. 13 W.; S.Bdy.T. 36 S., R. 15 W.; and the W. and N.Bdys. T.32 S., R. 14 W. of the Salt Lake Base and Meridian, Utah.

day of May, 1909.



U.S. Deputy Surveyor.

I, Rodney B. Shelley

*Frank T. Roberts*

, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the

retracement N.Bdy.T.35 S., R. 17 W.; W. and N.Bdys.T.34 S., R. 18 W.; N. and W.Bdys.T.35 S., R. 13 W.; W.Bdy.T.35 S., R. 14 W.; S. and W.Bdy. T.32 S., R. 14 W.; and S. and E.Bdys.T.34 S., R. 12 W.; and the resurvey of N.Bdy.T.35 S., R. 17 W.; N. and W.Bdys.T.35 S., R. 18 W.; E. and W. Bdys.T.35 S., R. 13 W.; S.Bdy.T. 36 S., R. 15 W.; and the W. and N.Bdys. T.32 S., R. 14 W. of the Salt Lake Base and Meridian, Utah.



U.S. Deputy Surveyor.

## RETRACEMENT OF THE EAST BOUNDARY OF T.35 S., R.17 W.

## CHAINS

Survey commenced, May 31, 1909, and executed with a W. & L. E. Gurley light mountain transit, No.-, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, April 20, 1909.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the stan.cor. of Tp. 35 S., Rs. 16 and 17 W., on the 7th Stan. Par. South, which is a granite stone, 9x6x6 ins. above ground, marked and witnessed as described by the surveyor general, in approximate latitude  $37^{\circ}43'N.$ , longitude  $113^{\circ}39'W.$ , I set off  $37^{\circ}43'N.$ , on lat. arc,  $21^{\circ}57'N.$ , on decl. arc, and at 3h. 57m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

May 31, 1909

---

June 1: At 2h. 54m., a.m., l.m.t., I observe Polaris at eastern elongation in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground, 5 chs. N. of my station. At 7 a.m., I lay off the azimuth of Polaris,  $1^{\circ}29'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.3 ins. east of the mark determined by the

## RETRACEMENT OF THE EAST BOUNDARY OF T.35 S., R.17 W.

## CHAINS

solar.

At 7h.58m., a.m., l.m.t., I set off  $37^{\circ}43'N.$ , on lat.arc,  $22^{\circ}02'N.$ , on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs.N. of my station. this mark falls 0.3 ins. east of the meridian established by the Polaris observation. The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0'16''$  west and east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.30m., a.m. is N. $16^{\circ}10'W.$ , the angle thus determined gives the mag. decl. $16^{\circ}10'E.$

From the stan.Tp.cor.already described, I run  
North, retracing bet.secs.31 and 36.

- |                                                     |                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 40.00                                               | No trace can be found of the $\frac{1}{4}$ sec.cor.                                                                                                                                                                                                                                                              |
| 80.00                                               | Intersect the cor.of secs.25-30-31 and 36, which is a granite stone, 8x8x6 ins. above ground, marked and witnessed as described by the surveyor general.                                                                                                                                                         |
| <p>Thence I run<br/>South, bet.secs. 31 and 36.</p> |                                                                                                                                                                                                                                                                                                                  |
| 40.00                                               | Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground for re-established $\frac{1}{4}$ sec.cor., marked on brass cap, +S3G. on W. half, and S 31 on E.half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft.dist., and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high, W.of cor. |
| 80.00                                               | The stan.cor.of Tp.35 S., Rs.16 and 17 W.                                                                                                                                                                                                                                                                        |
-

## RETRACEMENT OF THE EAST BOUNDARY OF T.35 S., R.17 W.

CHAINS	
	North, retracing bet. secs. 25 and 30.
40.00	The $\frac{1}{4}$ sec.cor. which is a granite stone, 5x12x6 ins. above ground, marked and witnessed as described by the surveyor general, bears E. 26 lks.
80.00	The cor.of secs. 19-24-25 and 30, which is a granite stone, 8x6x3 ins. above ground, marked and witnessed as described by the surveyor general, bears E.52 lks.dist. The course of this line is therefore N.0°22'E.
	North, retracing betsecs. 19 and 24.
40.00	Intersect the $\frac{1}{4}$ sec.cor., which is a volcanic stone, 6x10x4 ins. above ground, marked and witnessed as described by the surveyor general.
80.00	Intersect the cor.of secs. 13-18-19 and 24, which is a cedar post, 4 ins.sq., projecting 18 ins. above the ground, marked and witnessed as described by the surveyor general. June 1: At this cor.I set off 22°03'N., on decl.arc, and at 11h.58m., a.m., l.m.t., observe the sun on the meridian the resulting lat.is 37°46'N.
	North, retracing betsecs. 13 and 18.
40.00	The $\frac{1}{4}$ sec.cor. which is a cedar post, 3 ins.sq., 18 ins. above ground, marked and witnessed as described by the surveyor general, bears E.5 lks.
80.00	The cor.of secs. 7-12-13 and 18, which is a cedar post, 4 ins.diam., 18 ins. above ground, marked and witnessed as described by the surveyor general, bears E.9 lks.dist. The course of this line is therefore N.0°04'E.
	North, retracing betsecs. 7 and 12.
40.00	Fall 2 lks.E.of point of original $\frac{1}{4}$ sec.cor., mound and pits still existing, post missing. Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the

## RETRACEMENT OF THE EAST BOUNDARY OF T. 35 S., R. 17 W.

CHAINS	ground, for re-established $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 12 on W.half and S7 on E.half, dig pits, 18x18x12 ins. N. and S.of post, 3 ft.dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft.base, 1 $\frac{1}{2}$ ft.high,W.of cor.
80.00	Fall 5 lks.E.of the point of the original cor.of secs. 1-6-7 and 12; pits and mound of earth existing but post missing. Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the ground for re-established cor.of secs.1-6-7 and 12, marked on brass cap, T 35 S on N.half, R 17 W S 1 in NW., R 16 W S 6 in NE., S 7 in SE., and S 12 in SW.quadrants, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$ ft.dist., and raise a mound of earth, 4 ft.base, 2 ft.high,W.of cor. The course of this line is therefore N.0°02'W.
40.00	North, retracing betsecs. 1 and 6. Fall 6 lks.E.of the $\frac{1}{4}$ sec.cor.which is a cedar post, 3 ins.sq., 24 ins.above ground,marked and witnessed as described by the surveyor general.
60.00	Fall 12 lks.E.of the cor.of Tps.34 and 35 S.,Rs.16 and 17 W.,which is a granite stone, 4x7x4 ins.above ground, marked and witnessed as described by the surveyor general. The course of this line is therefore N.0°05'W.

June 1, 1909

For General description, see subdivisions of T. 35 S.,  
R.17 W.

*Frank T. Roberts*  
U.S.Deputy Surveyor

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by \_\_\_\_\_

\_\_\_\_\_, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_

showing the respective capacities in which they acted:

For list of names and final oath of assistants see book "Z<sup>14</sup>", Chainman.

T. 34 S., R. 13 W., \_\_\_\_\_, Chainman.

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted \_\_\_\_\_

\_\_\_\_\_, United States Deputy Surveyor, in surveying all those parts or portions of the \_\_\_\_\_

of the \_\_\_\_\_

meridian, \_\_\_\_\_ of \_\_\_\_\_, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for \_\_\_\_\_

\_\_\_\_\_, Chainman.

\_\_\_\_\_, Chainman.

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Flagman.

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190\_\_\_\_\_ }



## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, bearing date of the United States Surveyor General for \_\_\_\_\_, day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_.

For final oath of deputy see book "Z" T. 34 S., R. 12 W. 1<sup>4</sup>

of the \_\_\_\_\_ meridian, in the \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

*United States Deputy Surveyor.*

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_ }



## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1910, No. \_\_\_\_\_

The foregoing field notes of the survey of retrace of the East Boundary of Township 35 South, Range 17 West of the Salt Lake Base and Meridian, Utah,

executed by \_\_\_\_\_ Frank T. Roberts  
under his contract No. 313, dated April 5, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*Thomas E. Hull*  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

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**Page**

FILED  
DEC 11 1909  
*[Handwritten signature]*

"B"  
BOOK A-355

# FIELD NOTES

*M.S.B.*  
RETRACEMENT  
OF THE SURVEY OF THE

SEVENTH STANDARD PARALLEL SOUTH

through

RANGE NO. 17 WEST.

Of the Salt Lake Base and Meridian,

in the state of Utah.

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,

Under his Contract No. 313, dated April 5, 1909

Retracement

*Survey commenced* June 2, 1909

Retracement

*Survey completed* June 3, 1909

6-161

Pt. At.	3.00 00
	2.00 24
	1.00 61
	<hr/>
	6 00 85

**NAMES AND DUTIES OF ASSISTANTS.**

Earl V. Woolley, Chairman.

Claude L. Heister, Chairman.

W. Warren Stratton, Chairman.

Sterling Wright, Chairman.

Joseph D. Foster, Axman.

Rodney B. Shelley, Flagman.

BOOK A-355

INDEX DIAGRAM.

*Township* \_\_\_\_\_, *Range* \_\_\_\_\_

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30	20	28	27	26	25
31	32	33	34	35	36

*Meanders Page* \_\_\_\_\_

## PRELIMINARY OATHS OF ASSISTANTS.

Earl V. Woolley

Claude L. Heist

We, \_\_\_\_\_ do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Retracement of the 7th Standard Parallel South, through Rs. 13 and 17 W. of the S.L.B. and M., Utah.

Earl V. Woolley, Chairman.

Claude L. Heist, Chairman.

Subscribed and sworn to before me this 2d day of June, 1909.



U.S. Deputy Surveyor.

We, \_\_\_\_\_ W. Warren Stratton

and Sterling Wright

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of Retracement of the 7th Standard Parallel South, through Rs. 13 and 17 W. of the S.L.B. and M., Utah.

W. Warren Stratton, Moundman.

Sterling Wright, Moundman.

Subscribed and sworn to before me this 2d day of June, 1909.



U.S. Deputy Surveyor.

We, I, Joseph D. Foster

and

do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given me, to the best of my skill and ability, in the survey of Retracement of the 7th Standard Parallel South, through Rs. 13 and 17 W. of the S.L.B. and M., Utah.

Joseph D. Foster, Arman.

Arman.

Subscribed and sworn to before me this 2d day of June, 1909.



U.S. Deputy Surveyor.

I, \_\_\_\_\_ Rodney B. Shelley

, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Retracement of the 7th Standard Parallel South, through Rs. 13 and 17 W. of the S.L.B. and M., Utah.

Rodney B. Shelley, Flagman.

Subscribed and sworn to before me this 2d day of June, 1909.



U.S. Deputy Surveyor.

## RETRACEMENT OF THE 7th STANDARD PARALLEL SOUTH, through R. 17 W.

CHAINS	<p>Survey commenced, June 2, 1909, and executed with the instrument described in book "A", of this survey.</p> <p>I examine the adjustments of the transit and correct the level and collimation errors, then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:</p> <p>At the stan.cor. of Tp. 35 S., Rs. 16 and 17 W., heretofore described, in approximate latitude <math>37^{\circ}43'N.</math>, longitude <math>113^{\circ}39'W.</math>, I set off <math>37^{\circ}43'N.</math>, on lat.arc, <math>22^{\circ}13'N.</math>, on decl.arc, and at 3h.58m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone, firmly set in the ground, 5 chs.N. of the cor.</p> <p style="text-align: right;">June 2, 1909</p> <hr/> <p>June 3: At 2h.46m., a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg, driven in the ground, 5 chs.N. of my station.</p> <p>At 6 a.m., I lay off the azimuth of Polaris, <math>1^{\circ}29'</math> to the west and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.3 ins. east of the marked determined by the solar.</p> <p>At 6h.58m., a.m., l.m.t., I set off <math>37^{\circ}43'N.</math>, on lat.arc, <math>22^{\circ}18'N.</math>, on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs.N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation. The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about <math>0^{\circ}16''</math> west and east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.</p>
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RETRACEMENT OF THE 7th STANDARD PARALLEL SOUTH, through R. 17 W.

## CHAINS

The magnetic bearing of the true meridian at 7h.30m., a.m. is N.16°10'W.: the angle thus determined gives the mag.decl.16°10' E.

From the stan.Tp.cor.already described, I run

West, retracing along the south bdy.of sec.36.

25.32 The closing cor.of Tp.36 S.,Rs.16 and 17 W.,which is a sandstone,5x5x3 ins.above ground,marked and witnessed as described by the surveyor general.

Difference between measurement of 40.00 chs.by two sets of chainmen is 2 lks.,position of middle point by

By 1st.set, 40.01 chs.

By 2nd.set, 39.99 chs., the mean of which is

40.00 Intersect point of original  $\frac{1}{4}$  sec.cor.,pits and mound of earth still in evidence but post missing.

Set an iron post, 3 ft.long,1 in.dia.,26 ins.in the ground,for re-established stan. $\frac{1}{4}$  sec.cor., marked on brass cap,S 36  $\frac{1}{4}$  on N.half, dig pits,18x18x12 ins., E.and W.of post,3 ft.dist.,and raise a mound of earth,

3 $\frac{1}{2}$  ft.base,1 $\frac{1}{2}$  ft.high,N.of cor.

79.25 Road to Enterprise, bears N.and S.

Difference between measurement of 80.00 chs.by two sets of chainmen is 4 lks.,position of middle point

By 1st.set, 80.02 chs.,

By 2nd.set,79.98 chs.,the mean of which is

80.00 Intersect the stan.cor.of secs.35 and 36, which is a volcanic stone,6x10x4 ins.above ground,marked and witnessed as described by the surveyor general.

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West, retracing on S.bdy.of sec.35.

24.96 Intersect the closing cor.of secs.1 and 2,T.36 S.,R.17 W., which is a granite stone,10x12x8 ins.above the ground, marked and witnessed as described by the surveyor general. Difference between measurement of 40.00 chs.by two sets of chainmen is 6 lks.,position of middle point

By 1st.set,40.03 chs.,

## RETRACEMENT OF THE 7th STANDARD PARALLEL SOUTH, through R. 17 W.

CHAINS	
40.00	<p>By 2nd.set, 39.97 chs., the mean of which is          Intersect the stan.<math>\frac{1}{4}</math> sec.cor., which is a volcanic stone,          12x10x5 ins. above the ground, marked and witnessed as          described by the surveyor general.</p> <p>Difference between measurement of 80.00 chs., by two sets          of chainmen is 8 lks., position of middle point</p> <p>By 1st.set, 80.04 chs.,</p> <p>By 2nd.set, 79.96 chs., the mean of which is</p>
80.00	<p>Intersect the stan cor.of secs.34 and 35, which is a          volcanic stone, 7x7x6 ins. above ground, marked and witnessed          as described by the surveyor general.</p>
26.92	<p>West, retracing ont S.bdy. of sec.34.</p> <p>Intersect the closing cor.of secs. 2 and 3, T.36 S., R.17          W., which is a granite stone, 8x9x8 ins. above ground,          marked and witnessed as described by the surveyor general.</p> <p>Difference between measurement of 40.00 chs. by two sets          of chainmen is 4 lks., position of middle point</p> <p>By 1st.set, 40.02 chs.,</p> <p>By 2nd.set, 39.98 chs., the mean of which is</p>
40.00	<p>Intersect the stan.<math>\frac{1}{4}</math> sec.cor., which is a granite stone,          9x6x6 ins. above the ground, marked and witnessed as          described by the surveyor general.</p> <p>Difference between measurement of 80.00 chs., by two sets          of chainmen is 6 lks., position of middle point</p> <p>By 1st.set, 79.97 chs.,</p> <p>By 2nd.set, 80.03 chs., the mean of which is</p>
80.00	<p>Intersect the stan.cor.of secs.33 and 34, which is a          volcanic stone, 10x10x8 ins, above the ground, marked and          witnessed as described by the surveyor general.</p> <p>June 3: At this cor.I set off 22°19'N., on decl.arc, and at          11h.58m., a.m., l.m.t., observe the sun on the meridian, the          resulting lat. is 37°43'N.</p>

## RETRACEMENT OF THE 7th STANDARD PARALLEL SOUTH, through R.17 W.

CHAINS	West, retracing on S.bdy.of sec.33.
26.96	Intersect the closing cor.of secs.3 and 4, T.36 S., R.17 W., which is a volcanic stone, 9x9x8 ins. above ground, marked and witnessed as described by the surveyor general. Difference between measurement by two sets of chainmen to stan. $\frac{1}{4}$ sec.cor.is 10 lks., position of middle point By 1st.set, 40.20 chs., By 2nd.set, 40.10 chs., the mean of which is
40.15	Intersect the stan. $\frac{1}{4}$ sec.cor., which is a granite stone, 6x8x6 ins. above the ground, marked and witnessed as described by the surveyor general. Difference between measurement by two sets of chainmen to the stan.sec.cor.is 8 lks., position of cor. By 1st.set, 80.16 chs., By 2ns.set, 80.08, the mean of which is
80.12	Intersect the stan.cor.of secs.32 and 33, which is a granite stone, 10x15x9 ins. above ground, marked and witnessed as described by the surveyor general.
27.55	West, retracing on S.bdy.of sec.32. Intersect the closing cor.of secs.4 and 5, T.36 S., R.17 W. which is a volcanic stone, 11x12x6 ins. above ground, marked and witnessed as described by the surveyor general. Difference between measurement by two sets of chainmen to the stan. $\frac{1}{4}$ sec.cor.is 10 lks., position of cor. By 1st.set, 40.09 chs., By 2nd.set, 39.99 chs., the mean of which is
30.04	Fall 18 lks.N. of the stan. $\frac{1}{4}$ sec.cor., which is a volcanic stone, 12x11x5 ins. above the ground, marked and witnessed as described by the surveyor general. I continue on same line. Difference between measurement by two sets of chainmen to stan.sec.cor.is 12 lks., position of cor. By 1st.set, 80.18 chs., By 2nd.set, 80.06 chs., the mean of which is

## RETRACEMENT OF THE 7th STANDARD PARALLEL SOUTH, through R.17 W.

CHAINS	
80.12	Fall 36 lks.N. of the stan.cor. of secs. 31 and 32, which is a volcanic stone, 6x10x4 ins. above the ground, marked and witnessed as described by the surveyor general. The course of this line is therefore S.89°45'W., and the length 80.12 chs.  West, retracing on S.bdy. of sec. 31.
28.05	Intersect the closing cor. of secs. 5 and 6, T.36 S.; R.17 W., which is a volcanic stone, 10x9x8 ins. above ground, marked and witnessed as described by the surveyor general. Difference between measurement by two sets of chainmen to the stan. $\frac{1}{4}$ sec. cor. is 6 lks., position of cor.  By 1st.set, 40.58 chs., By 2nd.set, 40.52 chs., the mean of which is
40.55	Fall 31 lks.S. of the stan. $\frac{1}{4}$ sec. cor. which is a volcanic stone, 9x14x4 ins. above ground, marked and witnessed as described by the surveyor general.  I continue on same line.  Difference between measurement by two sets of chainmen to stan.Tp.cor. is 8 lks., position of cor.  By 1st.set, 80.65 chs., By 2nd.set, 80.57 chs., the mean of which is
80.61	Fall 62 lks.S. of the stan.cor. of Tp.35 S., Rs.17 and 18 W., which is a volcanic stone, 6x10x4 ins. above the ground, marked and witnessed as described by the surveyor general. The course of this line is therefore N.89°34'W., and the length 80.61 chs.

June 3, 1909

For General Description see Subdivisions of T.35 S., R. 17 W.

  
U. S. Deputy Surveyor

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**Page**

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by \_\_\_\_\_  
 \_\_\_\_\_, United States Deputy Surveyor, to assist in running, measuring, and  
 marking the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_

showing the respective capacities in which they acted:

For list of names and final oath of assistants see book "U", *Chairman*.

T. 35 S., R. 13 W. \_\_\_\_\_, *Chairman*.

\_\_\_\_\_, *Moundman*.

\_\_\_\_\_, *Moundman*.

\_\_\_\_\_, *Axman*.

\_\_\_\_\_, *Axman*.

\_\_\_\_\_, *Flagman*.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted \_\_\_\_\_

\_\_\_\_\_, United States Deputy Surveyor, in surveying all  
 those parts or portions of the \_\_\_\_\_

of the \_\_\_\_\_

\_\_\_\_\_ meridian, \_\_\_\_\_ of \_\_\_\_\_, which are represented  
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
 corner monuments established, according to the instructions furnished by the United States Surveyor

General for \_\_\_\_\_

\_\_\_\_\_, *Chairman*.

\_\_\_\_\_, *Chairman*.

\_\_\_\_\_, *Moundman*.

\_\_\_\_\_, *Moundman*.

\_\_\_\_\_, *Axman*.

\_\_\_\_\_, *Axman*.

\_\_\_\_\_, *Flagman*.

Subscribed and sworn to before me this \_\_\_\_\_ }  
 day of \_\_\_\_\_, 190 \_\_\_\_\_ }



## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..... United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ..... hearing date of the United States Surveyor General for ..... day of ..... 100 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ..... the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oath of deputy see book "U" T. 35 S., R. 17 W.

..... of the ..... meridian, in the ..... of ..... which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor.

Subscribed by said ..... and sworn to before me }  
this ..... day of ..... 190 }



## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1909

The foregoing field notes of the survey of retracement of the Seventh Standard Parallel South, through Range 17 West of the Salt Lake Base and Meridian, Utah,

executed by Frank T. Roberts  
under his contract No. 313, dated April 5, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracement surveys they describe, are hereby approved.

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

United States Surveyor General

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**Page**

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Page

"C"  
BOOK A-355

FILED  
DEC 11 1909  
*W.W.B.*

# FIELD NOTES

*m.s.b.*  
RE  
OF THE SURVEY OF THE

THIRD AUXILIARY GUIDE MERIDIAN

through TOWNSHIP NO. 35 SOUTH,

between

RANGES NOS. 17 and 18 WEST.

of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,

Under his Contract No. 313, dated April 5, 1909

Survey commenced June 4, 1909

Survey completed June 5, 1909

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BOOK A-355

NAMES AND DUTIES OF ASSISTANTS.

Sterling Wright, Chairman

Earl V. Woolley, "

W. Warren Stratton, "

Claude L. Heist, "

Erastus B. Dally, Moundman

George B. McConnell, "

Joseph D. Foster, Axman

Rodney B. Shelley, Flagman

BOOK A-355

INDEX DIAGRAM.

*Township* 35 South , *Range* 18 West

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*Meanders Page*

## PRELIMINARY OATHS OF ASSISTANTS.

We, Sterling Wright, Earl V. Woolley, W. Warren Stratton and Claude L. Heist, do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Third Auxiliary Guide Meridian, through Tps. 35 and 34 S., between RS. 17 and 18 W. of the Salt Lake Base and Meridian, Utah.

Sterling Wright  
W. Warren Stratton

Earl V. Woolley, Chairman.  
Claude L. Heist, Chairman.

Subscribed and sworn to before me this 4th

day of June, 1909.



Frank T. Roberts

U.S. Deputy Surveyor.

We, Erastus B. Dalley and George B. McDonald, do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of Third Auxiliary Guide Meridian, through Tps. 35 and 34 S., between RS. 17 and 18 W. of the Salt Lake Base and Meridian, Utah.

Erastus B. Dalley, Moundman.  
George B. McDonald, Moundman.

Subscribed and sworn to before me this 4th

day of June, 1909.



Frank T. Roberts

U.S. Deputy Surveyor.

We, I, Joseph D. Foster, do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given me, to the best of my skill and ability, in the survey of Third Auxiliary Guide Meridian, through Tps. 35 and 34 S., between RS. 17 and 18 W. of the Salt Lake Base and Meridian, Utah.

Joseph D. Foster, Axman.

Axman.

Subscribed and sworn to before me this 4th

day of June, 1909.



Frank T. Roberts

U.S. Deputy Surveyor.

I, Rodney B. Shelley, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the resurvey of Third Auxiliary Guide Meridian, through Tps. 35 and 34 S., between RS. 17 and 18 W. of the Salt Lake Base and Meridian, Utah.

Rodney B. Shelley, Flagman.

Subscribed and sworn to before me this 4th

day of June, 1909.



Frank T. Roberts

U.S. Deputy Surveyor.

## RESURVEY OF THE THIRD AUXILIARY GUIDE MERIDIAN, through T. 35 S.

CHAINS	<p>Survey commenced June 4, 1909, and executed with the instrument described in book "A", of this survey.</p> <p>I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:</p> <p>At the stan.cor. of Tp. 35 S., Rs. 17 and 18 W., heretofore described in approximate latitude <math>37^{\circ}43'N.</math>, longitude <math>113^{\circ}46'W.</math>, I set off <math>37^{\circ}43'N.</math>, on lat.arc, <math>22^{\circ}28'N.</math> on decl.arc, and at 3h.58m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs.N. of the cor.</p> <p style="text-align: right;">June 4, 1909</p> <hr/> <p>June 5: At 2h.38m., a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground, 5 chs.N. of my station.</p> <p>At 6 a.m., I lay off the azimuth of Polaris, <math>1^{\circ}29'</math> to the west and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.3 ins.east of the mark determined by the solar.</p> <p>At 6h.58m., a.m., l.m.t., I set off <math>37^{\circ}43'N.</math>, on lat.arc, <math>22^{\circ}32'N.</math>, on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs.N. of my station; this mark falls 0.3 ins.east of the meridian established by the Polaris observation.</p> <p>The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about <math>0'16''</math> west and east of the meridian established by the Polaris observations: therefore, I conclude that the adjustments</p>
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RESURVEY OF THE THIRD AUXILIARY GUIDE MERIDIAN, through T.35 S.

CHAINS

of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h.30m., a.m. is N.16°10'W.: the angle thus determined gives the mag. decl. 16°10'E.

From the stan.Tp.cor. already described, I run North, retracing bet.secs.31 and 36, at 40.00 chs., the  $\frac{1}{4}$  sec.cor.bears west, 51 lks. and at 80.10 chs., the cor.of secs.25-30-31 and 36 bears west 96 lks.

The course of this line being out of limits and there being no subdivisions depending upon this line I resurvey the line as follows:

From the stan.cor.of Tp.35 S., Rs.17 and 18 W., I run North, bet.secs.31 and 36.

Descend over rolling land, through sparse undergrowth.

Difference between measurement of 40.00 chs., by two sets of chainmen is 2 lks., position of middle point

By 1st.set, 40.01 chs.,

By 2nd.set, 39.99 chs., the mean of which is

40.00 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for re-established  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 36 on W.half, S 31 on E.half, dig pits, 18x18x12 ins., N.and S.of post, 3 ft.dist., and raise a mound of earth, 2 ft.base, 1 $\frac{1}{2}$  ft.high,W.of cor.

I destroy all traces of the original  $\frac{1}{4}$  sec.cor.

Difference between measurement of 80.00 chs., by two sets of chainmen is 4 lks., position of middle point,

By 1st.set, 80.02 chs.,

By 2nd.set, 79.98 chs., the mean of which is

80.00 Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the ground for re-established cor.of secs.25-30-31 and 36, marked on brass cap, T 35 S on N.half,

R 18 W S 25 in NW.,

R 17 W S 30 in NE.,

S 31 in SE., and

S 36 in SW.quadrant, dig pits, 18x18x12 ins., in each

## RESURVEY OF THE THIRD AUXILIARY GUIDE MERIDIAN, through T.35 S.

CHAINS	
	sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	I destroy all traces of the old sec.cor.
	Land, rolling.
	Soil, sandy and clay loam, 1st. rate.
	No timber.
	Undergrowth, low sage and shad scale.
	North, bet. secs. 25 and 30.
	Over level land, through sparse undergrowth.
	Difference between measurement of 40.00 chs. by two sets of chainmen is 4 lks., position of middle point
	By 1st.set, 40.02 chs.,
	By 2nd.set, 39.98 chs., the mean of which is
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for re-established $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 25 on W.half and S 30 on E.half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	The old $\frac{1}{4}$ sec.cor.bears N.81°W., 1.45 chs.dist.
	I destroy all traces of the old $\frac{1}{4}$ sec.cor.
	Difference between measurement of 80.00 chs., by two sets of chainmen is 8 lks., position of middle point
	By 1st.set, 80.04 chs.,
	By 2nd.set, 79.96 chs., the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins.dia., 24 ins.in the ground, for re-established cor.of secs.19-24-25 and 30, marked on brass cap, T 35 S on N.half, R 18 W S 24 in NW., R 17 W S 19 in NE., S 30 in SE., and S 25 in SW.quadrant, dig pits, 18x18x 12 ins.in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	I destroy all traces of the old cor. which bears N.79°30'W.

## RETRACEMENT OF THE THIRD AUXILIARY GUIDE MERIDIAN, through T.35 S.

CHAINS	<p>1.85 chs.dist. Land, level. Soil, loam, 1st. rate. No timber. Undergrowth, low sage brush.</p> <hr/> <p>North, betsecs. 19 and 24.</p>
	<p>Over level land, through sparse undergrowth.</p> <p>Difference between measurement of 40.00 chs., by two sets of chainmen is 4 lks., position of middle point</p> <p>By 1st.set, 40.02 chs.,</p> <p>By 2nd.set, 39.98 chs., the mean of which is</p>
40.00	<p>Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for re-established <math>\frac{1}{4}</math> sec.cor., marked on brass cap, <math>\frac{1}{4}</math> S 24 on W.half, S 19 on E.half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft.dist., and raise a mound of earth, <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft.high,W.of cor.</p> <p>I destroy all traces of the old <math>\frac{1}{4}</math> sec.cor. which bears N. <math>71^{\circ}W.</math>, 2.40 chs.dist.</p> <p>Difference between measurement of 80.00 chs., by two sets of chainmen is 2 lks., position of middle point</p> <p>By 1st.set, 80.01 chs.,</p> <p>By 2nd.set, 79.99 chs., the mean of which is</p>
80.00	<p>Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the ground for re-established cor.of secs.13-18-19 and 24, marked on brass cap, T 35 S on N.half,</p> <p>R 18 W S 13 in NW.,</p> <p>R 17 W S 18 in NE.,</p> <p>S 19 in SE., and</p> <p>S 24 in SW.quadrant, dig pits, 18x18x12 ins., in each sec., <math>5\frac{1}{2}</math> ft.dist., and raise a mound of earth, 4 ft.base, <math>2\frac{1}{2}</math> ft.high,W.of cor.</p> <p>The old sec.cor.bears N.<math>72^{\circ}W.</math>, 2.75 chs.dist.</p> <p>I destroy all traces of old cor.</p> <p>Land, level.</p>

## RETRACEMENT OF THE THIRD AUXILIARY GUIDE MERIDIAN, through T.35 S.

CHAINS	
	Soil, loam, 1st. rate.
	No timber.
	Undergrowth, low sage brush and bunch grass.
	June 5: At this cor. I set off 22°33' N., on decl. arc, and at 11h.58m., a.m., l.m.t., observe the sun on the meridian the resulting lat. is 37°46' N.
	North, bet. secs. 13 and 18.
	Over level land, through dense undergrowth.
10.80	Road from Newcastle to Modena, bears E. and W. Difference between measurement of 40.00 chs., by two sets of chainmen is 6 lks., position of middle point, By 1st.set, 40.03 chs., By 2nd.set, 39.97 chs., the mean of which is
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for re-established $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 13 on W.half, S 18 on E.half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W.of cor. I destroy all traces of the old $\frac{1}{4}$ sec.cor. which bears N.74°W., 3.21 chs. dist.
79.90	Road from Newcastle to Modena, bears NW. and SE. Difference between measurement of 80.00 chs., by two sets of chainmen is 10 lks., position of middle point, By 1st.set, 80.05 chs., By 2nd.set, 79.95 chs., the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground for re-established cor. of secs. 7-12-13 and 18, marked on brass cap, T 35 S on N.half, R 18 W S 12 in NW., R 17 W S 7 in NE., S 18 in SE., and S 13 in SW.quadrant, dig pits, 18x18x12 ins., in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W.of cor.

## RETRACEMENT OF THE THIRD AUXILIARY GUIDE MORTDIAN, through T. 35 S.

## CHAINS

I destroy all traces of the old sec.cor. which bears  
N.76°15'W., 3.72 chs.  
Land, level.  
Soil, loam, 1st. rate.  
No timber.  
Undergrowth, sage brush and bunch grass.  
Dense undergrowth on 80.10 chs.

North, betsecs. 7 and 12.

Over level land, through dense undergrowth.

Difference between measurement of 40.00 chs., by two sets  
of chainmen is 8 lks., position of middle point

By 1st.set, 40.04 chs.,

By 2nd.set, 39.96 chs., the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground  
for re-established  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 12  
on W. half, S 7 on E. half, dig pits, 18x18x12 ins., N. and S.  
of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base,  
1 $\frac{1}{2}$  ft. high, W. of cor.

I destroy all traces of the old  $\frac{1}{4}$  sec.cor. which bears  
N.77°W., 4.31 chs. dist.

Difference between measurement of 80.00 chs. by two sets  
of chainmen is 8 lks., position of middle point

By 1st.set, 79.96 chs.,

By 2nd.set, 80.04 chs., the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground  
for re-established cor.of secs. 1-6-7 and 12, marked on  
brass cap, T 35 S on N. half,

R 18 W S 1 in NW.,

R 17 W S 6 in NE.,

S 7 in SE. and

S 12 in SW. quadrant, dig pits, 18x18x12 ins., in each  
sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2  
ft. high, W. of cor.

## RESURVEY OF THE THIRD AUXILIARY GUIDE MERIDIAN, through T.35 S.

## CHAINS

I destroy all traces of the old sec.cor. which bears N. $77^{\circ}30'$  W., 4.95 chs.dist.

Land, level.

Soil, loam, 1st.rate.

No timber.

Undergrowth sage brush and bunch grass.

Dense undergrowth on 80.00 chs.

North, betsecs. 1 and 6.

Over level land, through sparse undergrowth.

15.50 Wash, 15 lks.wide, 4 ft.deep, course NE.

Difference between measurement of 40.00 chs., by two sets of chainmen is 6 lks., position of middle point

By 1st.set, 40.03 chs.,

By 2nd.set, 39.97 chs., the mean of which is

40.00 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground for re-established  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 1 on W.half, S 6 on E.half, dig pits, 18x18x12 ins., N.and S.of post, 3 ft.dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.high, W.of cor.

I destroy all traces of the old  $\frac{1}{4}$  sec.cor. which bears N. $77^{\circ}15'W.$ , 5.75 chs.dist.

Difference between measurement of 80.00 chs., by two sets of chainmen is 4 lks., position of middle point

By 1st.set, 80.02 chs.,

By 2nd.set, 79.98 chs., the mean of which is

80.00 Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the ground, for re-established cor.of Tps. 34 and 35 S., Rs. 17 and 18 W., marked on brass cap

T 34 S on N.half,

T 35 S on S.half,

R 18 W S 36 in NW.,

R 17 W S 31 in NE.,

R 17 W S 6 in SE., and

RETRACEMENT OF THE THIRD AUXILIARY GUIDE MERIDIAN, through T.35 S.

## CHAINS

R 18 W S 1 in SW quadrant, dig pits, 24x24x12 inn.,  
on each line, N., E., and W., 4 ft. and S. of post, 8 ft. dist.,  
and raise a mound of earth, 5 ft. base,  $2\frac{1}{2}$  ft. high, S. of cor.  
The old cor. of Tps. 34 and 35 S., R. 17 and 18 W., bears  
N.  $77^{\circ}50'W.$ , 6.68 chs. dist.

I destroy all traces of old Tp. cor.

Land, level.

Soil, loam, 1st. rate.

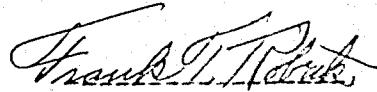
No timber.

Undergrowth, low sage brush and bunch grass.

June 5, 1909

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For General Description, see Subdivisions of T.35 S.,  
R. 17 W.

  
Frank T. Clark  
U.S. Deputy Surveyor

BOOK A-355

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by .....  
....., United States Deputy Surveyor, to assist in running, measuring, and  
marking the lines and corners described in the foregoing field notes of the survey of .....

showing the respective capacities in which they acted:

For list of names and final oath of assistants see book "P," Chainman.  
T. 34 S., R. 17 and 18 W. ...., Chainman.  
....., Moundman.  
....., Moundman.  
....., Axman.  
....., Axman.  
....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....  
....., United States Deputy Surveyor, in surveying all  
those parts or portions of the .....

....., of the .....,  
....., meridian, ..... of ..... , which are represented  
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
corner monuments established, according to the instructions furnished by the United States Surveyor  
General for .....

....., Chainman.  
....., Chainman.  
....., Moundman.  
....., Moundman.  
....., Axman.  
....., Axman.  
....., Flagman.

Subscribed and sworn to before me this ..... }  
day of ..... , 1900 }  
{



## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..... United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ..... bearing date of the ..... day of ..... 190 ..... I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ..... the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of ..... .

For final oath of deputy see book "P". T. Z4 S., Rg. 17 and 18 W.

..... of the ..... meridian, in the ..... of ..... which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

*United States Deputy Surveyor.*

Subscribed by said ..... and sworn to before me }  
this ..... day of ..... 190 }

○○○○○  
O SEAL O  
○○○○○

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1910. XX

The foregoing field notes of the survey of Third Auxiliary Guide Meridian, Township 35 South, between Ranges 17 and 18 West of the Salt Lake Base and Meridian, Utah,

executed by ..... Frank T. Roberts  
under his contract No. 313 ..... dated April 5, ..... 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys they describe, are hereby approved.

*Frank T. Roberts*  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

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4-679.

FILED

DEC 11 1909

"D"

BOOK A-355

*M.J.B.*

# FIELD NOTES

*m.s.b.*  
RE  
OF THE SURVEY OF THE

NORTH BOUNDARY

of

TOWNSHIP NO. 35 SOUTH, RANGE NO. 17 WEST,

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,

Under his Contract No. 313, dated April 5, 1909

Survey commenced June 6, 1909

Survey completed June 7, 1909

6-151

No. 1. Bdy. 6. 00 25

## NAMES AND DUTIES OF ASSISTANTS.

Earl V. Woolley ..... Chairman  
Claude L. Heist, " " "  
W. Warren Stratton ..... Moundman  
Sterling Wright ..... " "  
Joseph D. Foster ..... Axman  
Rodney B. Shelley ..... Flagman

For preliminary trial day 1, see book "A" in Room R. 14, N.Y.

## BOOK A-355

## INDEX DIAGRAM.

*Township* \_\_\_\_\_, *Range* \_\_\_\_\_

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

*Meanders Page* \_\_\_\_\_

## PRELIMINARY OATHS OF ASSISTANTS.

WE, \_\_\_\_\_ and \_\_\_\_\_

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chainman.

, Chainman.

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 190 }



WE, \_\_\_\_\_ and \_\_\_\_\_

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman.

, Moundman.

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 190 }



WE, \_\_\_\_\_ and \_\_\_\_\_

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 190 }



I, \_\_\_\_\_, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of \_\_\_\_\_

, Flagman.

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 190 }



## RESURVEY OF THE NORTH BOUNDARY OF T.35 S., R.17 W.

## CHAINS

Survey commenced, June 6, 1909 and executed with the instrument described in book "A", of this survey.

I examine the adjustments of the transit and correct the level and collimation errors, then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps., 34 and 35 S., Rs. 16 and 17 W., heretofore described, in approximate latitude  $37^{\circ}49'N.$  longitude  $113^{\circ}39'W.$ , I set off  $37^{\circ}49'N.$  on lat.arc,  $22^{\circ}41'N.$ , on decl.arc, and at 3h.58m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone, firmly set in the ground, 5 chs.N. of the cor.

June 6, 1909

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June 7: At 2h.31m., a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions and mark a point in the line thus determined on a peg, driven in the ground, 5 chs.N. of my station.

At 6 a.m., I lay off the azimuth of Polaris,  $1^{\circ}29'$  to the west and mark the meridian thus determined, by cutting a small groove in the stone set June 6, on which the meridian falls 0.2 ins. east of the mark determined by the solar.

At 6h.59m., a.m., l.m.t., I set off  $37^{\circ}49'N.$  on lat.arc,  $22^{\circ}45'N.$ , on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs.N. of my station: this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about,  $0^{\circ}12'$  west and  $0^{\circ}16''$  east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

## RESURVEY OF THE NORTH BOUNDARY OF T.35 S., R.17 W.

## CHAINS

The magnetic bearing of the true meridian at 7h.30m., a.m., is N. $16^{\circ}10'W.$ , the angle thus determined gives the mag. decl.  $16^{\circ}10'E.$

From the Tp. cor. already described I run N. $89^{\circ}59'W.$ , on retracement line, along the north bdy. of T.35 S., R.17 W. At 40.00 chs. no trace can be found of the  $\frac{1}{4}$  sec. cor. and at 81.40 chs. the cor. of secs. 1-2-35 and 36 bears N.20 lks. dist.

The line being out of limits for distance and there being no subdivisions dependent upon the line I resurvey the line as follows:

I begin at the cor. of Tps. 34 and 35 S., Rs. 16 and 17 W., heretofore described, and run

West, on a random line, along the N.bdy. of T.35 S., R.17 W. setting temp.  $\frac{1}{4}$  sec. and sec. cors. at intervals of 40.00 chs. and at 480.25 chs., intersect the Third Auxiliary Guide Meridian, 30 lks. N. of the cor. of Tps. 34 and 35 S., Rs. 17 and 18 W., heretofore described.

The falling answers to a correction of  $0^{\circ}02'$ , or 5 lks. S. per mile, counting from the NE.cor. of the Tp.

June 7: At this cor. I set off  $22^{\circ}45'N.$ , on decl. arc, and at 11h.59m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $37^{\circ}49'N.$ .

Thence I run

N. $89^{\circ}58'E.$ , bet. secs. 6 and 31.

Over level land, through sparse undergrowth.

40.25 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 31 on N. half, S 6 on S. half, dig pits, 18x18x12 ins., E. and W. of post., 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

No trace can be found of the old  $\frac{1}{4}$  sec. cor.

74.16 The old cor. of secs. 5-6-31 and 32 bears N.18 lks.

80.25 Set an iron post, 3 ft. long, 3 ins. dia. 24 ins. in the ground,

## RESURVEY OF THE NORTH BOUNDARY OF T.35 S., R.17 W.

## CHAINS

for re-established cor. of secs. 5-6-31 and 32, marked on brass cap, T 34 S S 31 in NW.,

R 17 W S 52 in NE.,

R 17 W S 5 in SE., and

T 35 S S 6 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

I destroy all traces of the old sec.cor.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, low sage brush, shad scale and bunch grass.

N. 89° 58' E., bet. secs. 5 and 32.

Over level land, through sparse undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established  $\frac{1}{4}$  sec.cor., marked on brass cap  $\frac{1}{4}$  S 32 on N. half, S 5 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

No trace can be found of the old  $\frac{1}{4}$  sec.cor.

75.85 The old cor. of secs. 4-5-32 and 33 bears N. 21 lks.

80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground for re-established cor. of secs. 4-5-32 and 33, marked on brass cap, T 34 S S 32 in NW.,

R 17 W S 33 in NE.,

R 17 W S 4 in SE., and

T 35 S S 5 in SW. quadrant, dig pits, 18x18x12 ins. in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

I destroy all traces of the old sec.cor.

Land, level.

Soil, loam, 1st. rate.

No timber; undergrowth, sage brush, and bunch grass.

## RESURVEY OF THE NORTH BOUNDARY OF T.35 S., R.17 W.

CHAINS	N.89°58'E., bet.secs.4 and 33. Over level land, through sparse undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in.dia., 26 ins.in the ground, for re-established $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 33 on N.half, S 4 on S.half, dig pits, 18x18x12 ins., E.and W.of post, 3 ft.dist., and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high, N.of cor. No trace can be found of the old $\frac{1}{4}$ sec.cor.
80.00	Set an iron post, 3 ft. long, 3 ins.dia., 24 ins.in the ground for re-established cor.of secs.3-4-33 and 34, marked on brass cap, T 34 S S 33 in NW., R 17 W S 34 in NE., R 17 W S 3 in SE., and T 35 S S 4 in SW.quadrant, dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft.dist., and raise a mound of earth, 4 ft. base, 2 ft.high, W.of cor. No trace can be found of the old sec.cor. Land, level. Soil, loam, 1st.rate. No timber. Undergrowth, sage brush and bunch grass.
	N.89°58'E., bet.secs.3 and 34. Over level land, through sparse undergrowth.
40.00	Set an iron post, 3 ft. long, 1.in.dia., 26 ins.in the ground, for re-established $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 34 on N.half, S 3 on S.half, dig pits, 18x18x12 ins., E.and W.of post, 3 ft.dist., and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high, N.of cor. No trace can be found of the old $\frac{1}{4}$ sec.cor.
77.10	The cor.of secs.2-3-34 and 35, bears N.27 lks.dist.
80.00	Set an iron post, 3 ft. long, 3 ins.dia.24 ins.in the ground, for re-established cor.of secs.2-3-34 and 35, marked on brass cap T 34 S S 34 in NW., R 17 W S 35 in NE..

## RESURVEY OF THE NORTH BOUNDARY OF T.35 S., R.17 W.

## CHAINS

R 17 W S 2 in SE., and

T 35 S S 3 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

I destroy all traces of the old sec.cor.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and bunch grass.

N.89°58'E., bet.secs.2 and 35.

Over level land, through sparse undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 35 on N.half, S 2 on S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

No trace can be found of the old  $\frac{1}{4}$  sec.cor.

78.60 The cor.of secs.1-2-35 and 36, bears N.20 lks.

80.00 Set an iron post, 3 ft. long, 3 ins. dia. 24 ins. in the ground, for re-established cor.of secs.1-2-35 and 36, marked on brass cap, T 34 S S 35 in NW.,

R 17 W S 36 in NE.,

R 17 W S 1 in SE., and

T 35 S S 2 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

I destroy all traces of the old sec.cor.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush, shad scale and bunch grass.

BOOK A-355  
-6-

RESURVEY OF THE NORTH BOUNDARY OF T.35 S., R.17 W.

CHAINS	N. $89^{\circ}58' E.$ , bet. secs. 1 and 36.
	over level land, through sparse undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 36 on N. half, S 1 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	No trace can be found of the old $\frac{1}{4}$ sec. cor.
80.00	The cor. of Tps. 34 and 35 S., Rs. 16 and 17 W., heretofore described.
	Land, level.
	Soil, loam, 1st. rate.
	No timber.
	Undergrowth, sage brush, shad scale and bunch grass.

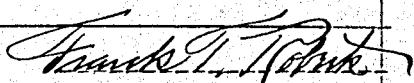
June 7, 1909

For General Description see Subdivisions of T.35 S.,  
R.17 W.

## BOUNDARIES OF T.35 S., R.17 W.

Latitudes, departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
7th. Stan. Par. S. West,	N. $89^{\circ}45' W.$	320.12				320.12
	N. $89^{\circ}34' W.$	80.12		0.35		80.12
3rd. Aux. G. M.	N. $89^{\circ}58' E.$	80.61	0.61			80.61
N. Bdy.	S. $0^{\circ}05' E.$	480.00	480.00			
E. Bdy.	S. $0^{\circ}02' E.$	480.25	0.28		480.25	
	S. $0^{\circ}04' W.$	80.00		80.00	0.12	
	South	80.00		80.00	0.05	
	S. $0^{\circ}22' W.$	80.00		80.00		0.09
	South	80.00		80.00		0.51
Convergency					0.56	
Totals		480.29	480.35	480.98	481.45	
		480.35			480.98	
Error in lat. and dep.		0.54			0.47	


  
U.S. Deputy Surveyor

**FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.****LIST OF NAMES.**

A list of the names of the individuals employed by \_\_\_\_\_

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_

showing the respective capacities in which they acted:

For list of names and final oath of assistants see book "Z" <sup>14</sup>, Chainman.

T. 34 S., R. 12 W. \_\_\_\_\_, Chainman.

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Flagman.

**FINAL OATH OF ASSISTANTS.**

We hereby certify that we assisted \_\_\_\_\_

....., United States Deputy Surveyor, in surveying all those parts or portions of the \_\_\_\_\_

of the \_\_\_\_\_

..... meridian, ..... of ..... which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for \_\_\_\_\_

\_\_\_\_\_, Chainman.

\_\_\_\_\_, Chainman.

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Flagman.

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 1900      }



## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, bearing date of the United States Surveyor General for \_\_\_\_\_, day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_.

For final affidavit see book "Z" T. 34 S., R. 12 W.

..... of the .....  
..... meridian, in the ..... of ..... which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

*United States Deputy Surveyor.*

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this ..... day of \_\_\_\_\_, 190 }

OOOOOO  
© SEAL ©  
OOOOOO

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1909.

The foregoing field notes of the survey of the North Boundary of Township 35 South, Range 17 West of the Salt Lake Base and Meridian, Utah,

executed by \_\_\_\_\_ Frank T. Roberts  
under his contract No. 313, dated April 5, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*Frank T. Roberts*  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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"E"  
BOOK A-355

- FILED -  
DEC 11 1909  
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# FIELD NOTES

*777. S. 03.*

OF THE SURVEY OF THE

S U B D I V I S I O N S

of

TOWNSHIP NO. 35 SOUTH, RANGE NO. 17 WEST.,

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,

Under his Contract No. 313, dated April 5, 1909

Survey commenced June 8, 1909

Survey completed June 14, 1909

6-161

60-06-205  
Cherry 0-03 r 771

## BOOK A-355

**NAMES AND DUTIES OF ASSISTANTS.**

Sterling Wright, Chairman

Claude L. Heist, "

Erastus R. Dalley, Moundman

George B. McConnell, "

Joseph D. Foster, Axman

Earl V. Woolley, "

Rodney B. Shelley, Flagman

BOOK A-355

INDEX DIAGRAM.

Township 35 South, Range 17 West

0	43	6	32	4	24	8	16	2	5	1
43		42		31		23		16		8
7	41	8	30	9	23	10	15	11	4	12
41		40		30		22		14		8
18	39	17	29	16	22	16	14	14	4	13
38		38		29		21		13		7
19	37	20	28	21	20	22	13	28	3	24
36		36		27		20		12		6
80	35	20	26	28	19	27	11	20	2	25
34		33		26		18		10		6
81	32	82	25	83	17	34	9	85	2	86

Meanders Page.....

## PRELIMINARY OATHS OF ASSISTANTS.

We, Sterling Wright and Claude L. Heist

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the subdivisions of T. 35 S., Rs. 13, 14, 15, 17, 18, 19 and 20 W., T. 34 S., Rs. 12 and 18 W., T. 36 S., R. 15 W., and T. 32 S., R. 14 W., of the S.L.B. & M., in the state of Utah.

Sterling Wright, Chairman.  
Claude L. Heist, Chairman.

Subscribed and sworn to before me this 8th.

day of June, 1909 }  

Frank T. Roberts

U.S. Deputy Surveyor

We, Erastus B. Dalley and George B. McConnell

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the subdivisions of T. 35 S., Rs. 13, 14, 15, 17, 18, 19 and 20 W., T. 34 S., Rs. 12 and 18 W., T. 36 S., R. 15 W., and T. 32 S., R. 14 W., of the S.L.B. & M., in the state of Utah

Erastus B. Dalley, Moundman.  
George B. McConnell, Moundman.

Subscribed and sworn to before me this 8th.

day of June, 1909 }  

Frank T. Roberts

U.S. Deputy Surveyor

We, Joseph D. Foster and Earl V. Woolley

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the subdivisions of T. 35 S., Rs. 13, 14, 15, 17, 18, 19 and 20 W., T. 34 S., Rs. 12 and 18 W., T. 36 S., R. 15 W., and T. 32 S., R. 14 W., of the S.L.B. & M., in the state of Utah.

Joseph D. Foster, Axman.  
Earl V. Woolley, Axman.

Subscribed and sworn to before me this 8th.

day of June, 1909 }  

Frank T. Roberts

U.S. Deputy Surveyor

I, Rodney B. Shelley, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the subdivisions of T. 35 S., Rs. 13, 14, 15, 17, 18, 19 and 20 W., T. 34 S., Rs. 12 and 18 W., T. 36 S., R. 15 W., and T. 32 S., R. 14 W., of the S.L.B. & M., in the state of Utah.

Rodney B. Shelley, Flagman.

Subscribed and sworn to before me this 8th.

day of June, 1909 }  

Frank T. Roberts

U.S. Deputy Surveyor.

## SUBDIVISIONS OF T. 35 S., R. 17 W.

## CHAINS

Survey commenced, June 8, 1909 and executed with the instrument described in book "A", of this survey.

I examine the adjustments of the transit and correct the level and collimation errors, then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the stan.cor.of secs. 35 and 36, heretofore described on the 7th Stan.Par.S., in approximate latitude  $37^{\circ}43'N.$ , longitude  $113^{\circ}40'W.$ , I set off  $37^{\circ}43'N.$ , on lat.arc,  $22^{\circ}52'N.$  on decl.arc, and at 3h.59m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof on a stone, firmly set in the ground, 5 chs.N. of the cor.

June 8, 1909

---

June 9: At 2h.22m., a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg, driven in the ground, 5 chs.N. of my station.

At 6 a.m., I lay off the azimuth of Polaris,  $1^{\circ}29'$  to the west and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 6h.59m., a.m., l.m.t., I set off  $37^{\circ}43'N.$ , on lat.arc,  $22^{\circ}56'N.$ , on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5.00 chs.N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation. The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0^{\circ}16'$  west and east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the

## SUBDIVISIONS OF T. 35 S., R. 17 W.

CHAINS	
	instrument are satisfactory.
	The magnetic bearing of the true meridian at 7h.30m., a.m., is N.16°10'W., the angle thus determined gives the mag. decl. 16°10'E.
	The east boundary being out of limits for course, I run a sectional guide meridian as follows:
	From the stan.cor. of secs. 35 and 36, I run
	North, on sectional guide meridian,
	Bet. secs. 35 and 36.
	Descend over rolling land, through sparse undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec.cor. marked on brass cap $\frac{1}{4}$ S 35 on W. half and S. 36 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 25-26-35 and 36, marked on brass cap, T 35 S S 26 in NW., R 17 W S 25 in NE., S 36 in SE., and S 35 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, rolling. Soil, sandy loam, 1st. rate. No timber. Undergrowth, low sage brush.
	North, on sectional guide meridian,
	Bet. secs. 25 and 26.
	Over level land, through dense undergrowth.
27.10	Road from Enterprise to Modena, bears NW. and SE.
31.70	Road from Newcastle to Modena, bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S. 26 on W. half

## SUBDIVISIONS OF T. 35 S., R. 17 W.

## CHAINS

S 25 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 23-24-25 and 26, marked on brass cap, T 35 S S 23 in NW.,

R 17 W S 24 in NE.,

S 25 in SE., and

S 26 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage and greasewood brush.

Dense undergrowth on 80.00 chs.

North, on sectional guide meridian,

Bet. secs. 23 and 24.

Over level land, through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 23 on W. half, S 24 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 13-14-23 and 24, marked on brass cap T 35 S S 14 in NW.,  
R 17 W S 13 in NE.,  
S 24 in SE., and  
S 23 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

## SUBDIVISIONS OF T. 35 S., R. 17 W.

CHAINS	
	Soil, sandy loam, 1st. rate.
	No timber.
	Undergrowth, sage and greasewood brush.
	Dense undergrowth on 80.00 chs.
	North, on sectional guide meridian
	Bet. secs. 13 and 14.
	Over level land, through dense undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia. 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 14 on W. half, S. 13 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 11-12-13 and 14, marked on brass cap T 35 S S. 11 in NW., R 17 W S 12 in NE., S 13 in SE., and S 14 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, shifting sand, 2nd. rate. No timber. Undergrowth, sage and greasewood brush. Dense undergrowth on 80.00 chs.
	North, on sectional guide meridian,
	Bet. secs. 11 and 12.
	Over level land, through dense undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 11 on W. half, S 12 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

## SUBDIVISIONS OF T.35 S., R.17 W.

## CHAINS

Leave dense undergrowth.

- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 1-2-11 and 12, marked on brass cap  
 T. 35 S S 2 in NW.,  
 R. 17 W S 1 in NE.,  
 S 12 in SW., and  
 S 11 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  
 Land, level.

Soil, shifting sand on 40.00 chs., 2nd. rate.  
 balance, loam, 1st. rate.

No timber.

Undergrowth greasewood and sage brush.

Dense undergrowth on 40.00 chs.

North, on a random line, bet. secs. 1 and 2.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.98 Intersect N. bdy. of Tp., 42 lks. W. of the re-established cor. of secs. 1-2-35 and 36, heretofore described.  
 Thence I run

S. 0° 18' W., on a true line,  
 Bet. secs. 1 and 2.

Over level land, through sparse undergrowth.

- 39.98 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 2 on W. half S 1 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.

- 79.98 The cor. of secs. 1-2-11 and 12.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, low sage brush.

## SUBDIVISIONS OF T.35 S., R.17 W.

## CHAINS

June 9: At this cor. I set off  $22^{\circ}56'N.$ , on decl. arc, and at 11h.59m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $37^{\circ}48'N.$

From the cor.of secs.25-26-35 and 36, I run  
East, on a random line,bet.secs.25 and 36.

40.00 Set temp. $\frac{1}{4}$  sec.cor.

80.02 Intersect E.bdy of Tp., 3 lks.S. of the cor.of secs.25-30-  
31 and 36, heretofore described.

Thence I run

$S.89^{\circ}59'W.$ , on a true line,

Bet.secs.25 and 36.

Gradual ascent through dense undergrowth.

6.00 Road from Newcastle to Modena, bears NW. and SE.

40.01 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground,  
for  $\frac{1}{4}$  sec.cor., marked on brass cap, $\frac{1}{4}$  S 25 on N.half, S 36 on  
S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft.dist.,  
and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high, N.of cor.

76.00 Road, from Enterprise to Modena, bears N. and S.

80.02 The cor.of secs.25-26-35 and 36.

Land nearly level.

Soil, loam, 1st.rate.

No timber.

Undergrowth, sage brush.

Dense undergrowth on 80.02 chs.

From the cor.of secs.23-24-25 and 26, I run  
 $N.89^{\circ}59'W.$ , on a random line,bet.secs.24 and 25.

40.00 Set temp. $\frac{1}{4}$  sec.cor.

80.52 Intersect E.bdy.of Tp., 5 lks.N. of the cor.of secs.  
19-24-25 and 30, heretofore described.

Thence I run

$N.89^{\circ}59'W.$ , on a true line,

Bet.secs.24 and 25.

Over level land, through shifting sand and dense undergrowth.

## SUBDIVISIONS OF T.35 S., R.17 W.

77

## CHAINS

40.52 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 24 on N. half, S 25 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

80.52 The cor. of secs. 23-24-25 and 26.

Land, level.

Soil, shifting sand, 2nd. rate.

No timber.

Undergrowth, greasewood and sage brush.

Dense undergrowth on 80.52 chs.

From the cor. of secs. 13-14-23 and 24, I run

S.  $89^{\circ}59'F.$ , on a random line, bet. secs. 13 and 24.

40.00 Set temp.  $\frac{1}{4}$  sec.cor.

80.54 Intersect E. bdy. of Tp., 3 lks. N. of the cor. of secs. 13-18-19 and 24, heretofore described.

Thence I run

N.  $89^{\circ}58'W.$ , on a true line,

Bet. secs. 13 and 24.

Over level land, through shifting sand and dense undergrowth.

40.54 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 13 on N. half, S 24 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

80.54 The cor. of secs. 13-14-23 and 24.

Land, level.

Soil, shifting sand, 2nd. rate.

No timber.

Undergrowth, greasewood and sage brush.

Dense undergrowth on 80.54 chs.

## SUBDIVISIONS OF T. 35 S., R. 17 W.

CHAINS	
	From the cor. of secs. 11-12-13 and 14, I run S.89°58' E., on a random line, bet. secs. 12 and 13.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.64	Intersect E.bdy. of Tp., 7 lks.S. of the cor. of secs. 7-12-13 and 18, heretofore described. Thence I run S.89°59' W., on a true line, Bet. secs. 12 and 13. Over level land through sparse undergrowth.
34.00	Enter shifting sand and dense undergrowth.
40.64	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 12 on N. half, S 13 on S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
80.64	The cor. of secs. 11-12-13 and 14. Land, level. Soil, loam on 34.00 chs., 1st. rate. balance shifting sand, 2nd. rate. No timber. Undergrowth, greasewood and sage brush. Dense undergrowth on 40.64 chs.
	From the cor. of secs. 1-2-11 and 12, I run N.89°59' E., on a random line, bet. secs. 1 and 12.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.59	Intersect E.bdy. of Tp., 9 lks.N. of the re-established cor. of secs. 1-6-7 and 12, heretofore described. Thence I run N.89°57' W., on a true line, Bet. secs. 1 and 12. Over level land, through sparse undergrowth.
40.59	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 1 on N.half.

## SUBDIVISIONS OF T.35 S., R.17 W.

## CHAINS

S 12 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

80.59 The cor. of secs. 1-2-11 and 12.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and shad scale.

June 9, 1909

June 10: At 6h.59m., a.m., l.m.t., I set off  $37^{\circ}43'N.$ , on lat. arc,  $23^{\circ}01'N.$ , on decl. arc, and determine a meridian with the solar at the stan.cor. of secs. 34 and 35, heretofore described on the 7th.stan.Par.South.

Thence I run

$N.0^{\circ}01'W.$ , bet. secs. 34 and 35.

Ascend over rocky and mountainous land.

4.75 Ridge, bears NE. and SW.

Descend.

12.00 Hollow, 75 ft. deep, course NW.

Ascend.

23.00 Ridge, bears NW. and SW.

Abrupt descent.

36.00 Hollow, 150 ft. deep, course NW.

Abrupt ascent.

40.00 Set an iron post, 3 ft. long, 1 in. dia., in mound of stone and earth, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 34 on W. half, S 35 on E. half, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

On account of natural obstacles it is impossible to set this post over 12 ins. in the ground.

## SUBDIVISIONS OF T. 35 S., R. 17 W.

CHAINS	
40.50	Rocky spur, projects NE. Abrupt descent.
52.00	Hollow, 100 ft. deep, course NE. Ascend.
55.00	Spur, projects NE. Descend.
59.00	Hollow, 100 ft. deep, course NE. Ascend.
65.00	Ridge, bears NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 26-27-34 and 35, marked on brass cap T. 35 S S 27 in NW., R 17 W. S 26 in NE., S 35 in SE., and S 34 in SW. quadrant, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 3rd. rate. No timber. Mountainous land on 80.00 chs.
	East, on a random line, bet secs. 26 and 35.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.88	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 25-26- 35 and 36. Thence I run N. 89° 58' W., on a true line, Bet. secs. 26 and 35.
	Gradual ascent over rolling land.
20.00	Begin ascent over mountainous land, bearing NW. and SE.
29.00	Spur, projects N. Descend.
33.00	Hollow, 75 ft. deep, course N.

## SUBDIVISIONS OF T. 35 S., R. 17 W.

CHAINS	
	Ancend.
32.94	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{2}$ S 26 on N. half, S 35 on S. half, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
53.00	Ridge, bears NW. and SE.
	Decend.
71.00	Hollow, 75 ft. deep, course N.
	Ancend.
77.00	Spur, projects N.
	Decend.
79.88	The cor. of secn. 26-27-34 and 35. Land, rolling and mountainous. Soil, rocky, 3rd. rate. No timber. Mountainous land on 54.88 chn.

N. 9°01' W., between sec. 26 and 27.

	Decend over mountainous land.
3.50	Hollow, 75 ft. deep, course W.
	Ancend.
14.00	Spur, projects W.
	Decend.
23.50	Foot of mountain, bears NE. and SW.
	Over level land.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{2}$ S 27 on W. half, S 26 on E. half, dig pitn, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
76.35	Road, from Newcastle to Modena, bears NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secn. 22-23-26 and 27, marked on brass cap

SUBDIVISIONS OF T.35 S., R.17 W.

CHAINS

T 35 S S 22 in NW.,  
R 17 W S 23 in NE.,  
S 26 in SE., and  
S.27 in SW.quadrant, dig pits, 18x18x12 ins., in each sec.,  
 $5\frac{1}{2}$  ft.dist., and raise a mound of earth, 4 ft.base, 2 ft.  
high,W.of cor.

Land, mountainous and level.

Soil, rocky, 3rd.rate: loam, 1st.rate.

No timber.

Mountainous land on 23.50 chs.

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S.89°58'W., on a random line, betsecs.23 and 26.

40.00 Set temp.  $\pm$  sec.cor.

79.90 Intersect N.and S.line, 14 lks.N.of the cor.of secs.  
23-24-25 and 26.

Thence I run

N.89°58'W., on a true line,

Bet.secs.23 and 26.

Over level land, through dense undergrowth.

39.95 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the  
ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 23 on N.  
half, S 26 on S.half, dig pits, 18x18x12 ins., E.and W.of  
post, 3 ft.dist., and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  
 $1\frac{1}{2}$  ft.high,N.of cor.

79.90 The cor.of secs.22-23-26 and 27.

Land, level.

Soil, loam, 1st.rate.

No timber.

Undergrowth, greasewood and sage brush.

Dense undergrowth on 79.90 chs.

June 10: At this cor.I set off 23°01'N., on decl.arc, and  
at 11h.59m., a.m., l.vit., observe the sun on the meridian,  
the resulting lat.is 37°45'N.

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## SUBDIVISIONS OF T. 35 S., R. 17 W.

## CHAINS

N. 0° 01' W., bet. secs. 22 and 23.

Over level land, through dense undergrowth.

- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 22 on W. half, S. 23 on N. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 14-15-22 and 23, marked on brass cap  
 T 35 S S 15 in NW.,  
 R 17 W S 14 in NE.,  
 S 25 in SW., and  
 S 22 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  
 Land, level.  
 Soil, sandy, 2nd. rate.  
 No timber.  
 Undergrowth, greasewood and sage brush.  
 Dense undergrowth on 80.00 chn.

S. 89° 52' E., on a random line, bet. secs. 14 and 23.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.84 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 13-14-23 and 24.  
 Thence I run  
 N. 89° 54' W., on a true line,  
 Bet. secs. 14 and 23.  
 Over level land, through dense undergrowth.
- 39.92 Set an iron post, 3 ft. long; 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 14 on N. half, S 23 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.
- 79.84 The cor. of secs. 14-15-22 and 23.

## SUBDIVISIONS OF T. 35 S., R. 17 W.

CHAINS	<p>Land, level.</p> <p>Soil, sandy, 2nd. rate.</p> <p>No timber.</p> <p>Undergrowth, greasewood and shad scale.</p> <p>Dense undergrowth on 79.84 chs.</p> <hr/> <p>N. 0° 01' W., bet. secs. 14 and 15.</p> <p>Over level land, through dense undergrowth.</p>
40.00	<p>Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked on brass cap, <math>\frac{1}{4}</math> S 15 on W. Half, S 14 on E. Half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high, W. of cor.</p>
80.00	<p>Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 10-11-14 and 15, marked on brass cap T 35 S S 10 in NW.,</p> <p>R 17 W S 11 in NE.,</p> <p>S 14 in SE., and</p> <p>S 15 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., <math>5\frac{1}{2}</math> ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.</p> <p>Land, level.</p> <p>Soil, shifting sand, 2nd. rate.</p> <p>No timber.</p> <p>Undergrowth, greasewood and sage.</p> <p>Dense undergrowth on 80.00 chs.</p> <hr/> <p>S. 89° 54' E., on a random line, bet. secs. 11 and 14.</p>
40.00	<p>Set temp. <math>\frac{1}{4}</math> sec. cor.</p>
79.86	<p>Intersect N. and S. line, 3 lks. S. of the cor. of secs. 11-12-13 and 14.</p> <p>Thence I run</p> <p>N. 89° 55' W., on a true line,</p> <p>Bet. secs. 11 and 14.</p>

## SUBDIVISIONS OF T.35 S., R.17 W.

## CHAINS

Over level land, through dense undergrowth.

59.93 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 11 on N. half, S 14 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

79.86 The cor. of secs. 10-11-14 and 15.

Land, level.

Soil, sandy, 2nd. rate.

No timber.

Undergrowth, greasewood and shad scale.

Dense undergrowth on 79.86 chs.

N.0°01'W., bet. secs. 10 and 11.

Over level land, through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 10 on W. half, S 11 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

Leave dense undergrowth.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 2-3-10 and 11, marked on brass cap  
T 35 S S 3 in NW.,

R 17 W S 2 in NE.,

S 11 in SE., and

S 10 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, sandy, 2nd. rate.

No timber.

Undergrowth, greasewood and sage brush.

Dense undergrowth on 40.00 chs.

## SUBDIVISIONS OF T.35 S., R.17 W.

CHAINS	
	S.89°55'W., on a random line, bet. secns. 2 and 11.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.92	Intersect N. and S. line, 23 lbs. S. of the cor. of secn. 1-2-11 and 12.
	Thence I run S. 49°55'W., on a true line, Bet. secns. 2 and 11.
	Over level land, through sparse undergrowth.
39.96	Set an iron post, 3 ft. long, 1 in. dia., 26 inn. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 2 on N. half, S 11 on S. half, dig pits, 18x18x12 inn., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
79.92	The cor. of secn. 2-3-10 and 11. Land, level. Soil, loam, 1st. rate. No timber. Undergrowth, sage brush and small rocks.
	N.0°01'W., on a random line, bet. secns. 2 and 3.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.16	Intersect N.bdy. of Tp., 40 lbs. W. of the re-established cor. of secns. 2-3-34 and 35, heretofore described.
	Thence I run S. 0°16'W., on a true line, Bet. secns. 2 and 3.
	Over level land, through sparse undergrowth.
40.16	Set an iron post, 3 ft. long, 1 in. dia., 26 inn. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 3 on W. half, S 2 on E. half, dig pits, 18x18x12 inn., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
80.16	The cor. of secns. 2-3-10 and 11. Land, level.

SUBDIVISIONS OF T. 35 S., R. 17 W.

CHAINS

Soil, loam, 1st. rate.

No timber.

Undergrowth, low sage brush, chad scale and bunch grass.

June 10, 1909

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June 11: At Gh. 59m., a.m., l.m.t., I set off  $37^{\circ}43'N.$ , on lat. arc,  $23^{\circ}06'N.$ , on decl. arc, and determine a meridian with the polar at the stan. cor. of secn. 33 and 34, heretofore described on the 7th. Stan. Par. South.

Thence I run

$N.0^{\circ}01'W.$ , bet. neer. 33 and 34.

Ancend over rocky and mountainous land.

4.00 Ridge, bears NW. and SE.

Abrupt descent.

13.00 Hollow, 100 ft. deep, course E.

Abrupt ascent.

27.00 Same ridge, bears NW. and SW.

Descend along west slope.

40.00 Set an iron post, 3 ft. long, 1 in. dia., in mound of stone and earth, for  $\frac{1}{2}$  sec. cor., marked on brass cap,  $\frac{1}{2}$  S 33 on W. half, S 34 on E. half, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

Pit impracticable.

On account of natural obntaclon it is impossible to set thin post over 18 ins. in the ground.

41.00 Head of hollow, course SW.

Ancend.

44.50 Rocky ridge, bears NW. and SE.

Abrupt descent.

51.00 Hollow, 150 ft. deep, course NW.

Abrupt ascent.

74.00 Ridge, bears NW. and SE.

Descend along steep west slope.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the

## SUBDIVISIONS OF T. 35 S., R. 17 W.

## CHAINS

ground, for cor. of secs. 27-28-33 and 34, marked on brass cap, T 35 S S 28 in NW.,  
 R 17 W S 27 in NE.,  
 S 34 in SE., and  
 S 33 in SW. quadrant, and raise a mound of stone, 2 ft. base,  
 1 $\frac{1}{2}$  ft. high, W. of cor.  
 Pits impracticable.  
 Land, mountainous.  
 Soil, rocky, 3rd. rate.  
 No timber.  
 Mountainous land on 80.00 chs.

East, on a random line, bet. secs. 27 and 34.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.02 Intersect N. and S. line, 3 lks. N. of the cor. of secs. 26-27-34 and 35.  
 Thence I run  
 N. 89° 59' W., on a true line,  
 Bet. secs. 27 and 34.  
 Descend over mountainous land.  
 2.90 Hollow, 100 ft. deep, course N.  
 Abrupt ascent.  
 40.01 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 27 on N. half, S 34 on S. half, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.  
 Pits impracticable.  
 47.00 Ridge, bears NW. and SE.  
 Abrupt descent.  
 54.00 Hollow, 150 ft. deep, course NW.  
 Abrupt ascent.  
 65.00 Spur, projects N.  
 Abrupt descent.  
 73.80 Hollow, 100 ft. deep, course N.

## SUBDIVISIONS OF T.35 S., R.17 W.

## CHAINS

- Abrupt ascent.
- 78.00 Rocky spur, projects N.
- Abrupt descent.
- 80.02 The cor. of secs. 27-28-33 and 34.  
Land, mountainous.  
Soil, rocky, 3rd. rate.  
No timber.  
Mountainous land on 80.02 chs.
- 
- N.0°01'W., bet. secs. 27 and 28.
- Descend over mountainous land.
- 40.00 Hollow, 200 ft. below sec.cor., course NW.  
Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground  
for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 28 on W. half, S.  
27 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft.  
dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high,  
W. of cor.
- Ascend.
- 57.00 Ridge, bears NW. and SW.
- Abrupt descent.
- 76.00 Hollow, 150 ft. deep, course E.
- Ascend.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., in mound of stone  
and earth, for cor. of secs. 21-22-27 and 28, marked on brass  
cap, T 35 S S 21 in NW.,  
R 17 W S 22 in NE.,  
S 27 in SE., and  
S 28 in SW. quadrant, and raise a mound of stone, 2 ft.  
base, 1 $\frac{1}{2}$  ft. high, W. of cor.
- Pits impracticable.
- On account of natural obstacles it is impossible to set  
thin post over 12 ins. in the ground.
- Land, mountainous.

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## SUBDIVISIONS OF T.35 S., R.17 W.

## CHAINS

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

S.89°59'E., on a random line, bet.secs.22 and 27.

40.00 Set temp. $\frac{1}{4}$  sec.cor.

80.06 Intersect N. and S.line, 3 lks.S. of the cor.of secs.  
22-23-26 and 27.

Thence I run

West, on a true line,

Bet.secs.22 and 27.

Over level land, through sparse undergrowth.

8.50 Road from Newcastle to Modena, bears NW. and SE.

40.03 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground,  
for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 22 on N.half, S 27  
on S.half, dig pits, 18x18x12 ins., E. and W.of post, 3 ft.  
dist., and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high,  
N.of cor.

72.00 Begin abrupt ascent.of mountain, bears NE. and SW.

80.06 The cor.of secs.21-22-27 and 28.

Land, level and mountainous.

Soil, loam, 1st.rate; rocky, 3rd.rate.

No timber.

Undergrowth, low sage and shad scale.

Mountainous land on 8.06 chs.

June 11: At this cor.I set off 23°06'N., on decl.arc, and  
at 11h.59m., a.m., l.m.t., observe the sun on the meridian,  
the resulting lat.is 37°45'N.

N.0°01'W., bet.secs.21 and 22.

Ascend over mountainous land.

5.50 Rocky spur, projects NE.

Abrupt descent.

33.50 Foot of abrupt descent, bears NE. and SW.

## SUBDIVISIONS OF T.35 S., R.17 W.

CHAINS	
	Over level land, through sparse undergrowth.
32.90	Road, from Newcastle to Modena, bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 21 on W.half, S 22 on E.half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 15-16-21 and 22, marked on brass cap T 35 S 16 in NW., R 17 W S 15 in NE., S 22 in SE., and S 21 in SW.quadrant, dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, mountainous and level.
	Soil, rocky, 3rd.rate: loam, 1st. rate.
	No timber.
	Undergrowth, low sage brush.
	Mountainous land on 32.50 chs.
	East, on a random line, bet. secs. 15 and 22.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.08	Intersect N. and S. line, 3 lks.S. of the cor. of secs. 14-15-22 and 23.
	Thence I run S.89°59'W., on a true line, Bet. secs. 15 and 22.
	Over level land, through dense undergrowth.
40.04	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 15 on N.half, S 22 on S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

## SUBDIVISIONS OF T.35 S., R.17 W.

## CHAINS

- 20.08 The cor. of secs. 15-16-21 and 22.  
 Land, level.  
 Soil, loam, 1st. rate.  
 No timber.  
 Undergrowth, greasewood and sage brush.  
 Dense undergrowth on 20.08 chs.
- 
- N.0°01'W., bet. secs. 15 and 16.  
 Over level land, through dense undergrowth.
- 40.03 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 16 on W. half, S 15 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 9-10-15 and 16, marked on brass cap T 35 S S 9 in NW.,  
 R 17 W S 10 in NE.,  
 S 15 in SE., and  
 S 16 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  
 Land, level.  
 Soil, loam, 1st. rate.  
 No timber.  
 Undergrowth, greasewood and sage brush.  
 Dense undergrowth on 80.00 chs.
- 
- N.89°59'E., on a random line, bet. secs. 10 and 15.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.04 Intersect N. and S. line, 3 lks. S. of the cor. of secs. 10-11-14 and 15.  
 Thence I run  
 S.89°58'W., on a true line,  
 Bet. secs. 10 and 15.

## SUBDIVISIONS OF T. 35 S., R. 17 W.

CHAINS	Over level land, through sparse undergrowth.
40.02	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 10 on N.half, S 15 on S half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
80.04	The cor. of secs. 9-10-15 and 16. Land, level. Soil, loam, 1st. rate. No timber. Undergrowth low sage and shad scale.
	N.0°01'W., bet. secs. 9 and 10. Over level land, through sparse undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 9 on W.half S 10 on E.half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 3-4-9 and 10, marked on brass cap T 35 S S 4 in NW., R 17 W S 3 in NE., S 10 in SE., and S 9 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, loam, 1st. rate. No timber. Undergrowth, sage brush and shad scale.
	N.89°58'E., on a random line, bet. secs. 3 and 10.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.08	Intersect N. and S. line, 5 lks. S. of the cor. of secs.

## SUBDIVISIONS OF T.35 S., R.17 W.

## CHAINS

2-3-10 and 11.

Thence I run

S.29°56'W., on a true line,

Bet. secs. 3 and 10.

Over level land, through sparse undergrowth.

40.04 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 3 on N. half, S 10 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

80.08 The cor. of secs. 3-4-9 and 10.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and shad scale.

N.0°01'W., on a random line, bet. secs. 3 and 4.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.43 Intersect N. bdy. of Tr., 37 lks. W. of the re-established cor. of secs. 3-4-33 and 34, heretofore described.

Thence I run

S.0°15'W., on a true line,

Bet. secs. 3 and 4.

Over level land, through sparse undergrowth.

40.43 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 4 on W. half, S 3 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.43 The cor. of secs. 3-4-9 and 10.

Land, level.

Soil, loam; 1st. rate.

No timber: undergrowth, sage brush and shad scale.

## SUBDIVISIONS OF T.35 S., R.17 W.

## CHAINS

June 12: At 6h.59m., a.m., I set off  $37^{\circ}43'N.$ , on lat. arc,  $23^{\circ}10'N.$ , on decl. arc, and determine a meridian with the solar at the stan.cor. of secs. 32 and 33, here-  
tofore described on the 7th.stan.Par.South.  
Thence I run

N. $0^{\circ}02'W.$ , bet. secs. 32 and 33.

Descend over mountainous land.

30.00 Hollow, 150 ft. deep, course NW.

Ascend.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 32 on W.half, S 33 on E.half, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W.of cor.

Pits impracticable.

46.00 Rocky spur, projects NW.

Abrupt descent.

62.00 Foot of abrupt descent, bears NE. and SW.

Over level land.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor.of secs. 28-29-32 and 33, marked on brass cap  
T 35 S S 29 in NW.,  
R 17 W S 28 in NE.,  
S 33 in SE., and  
S 32 in SW.quadrant, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W.of cor.

Pits impracticable.

Land, mountainous and level.

Soil, rocky, 3rd.rate.

No timber.

Mountainous land on 62.00 chs.

## SUBDIVISIONS OF T.35 S., R.17 E.

## CHAINS

Part, on a random line, bet. secs. 28 and 33.

40.00 Set temp.  $\frac{1}{4}$  sec.cor.

40.10 Intersect N. and S.line, 9 lms.S. of the cor.of secs.  
27-28-33 and 34.

Thence I run

S.89°56'W., on a true line,

Bet. secs. 28 and 33.

Descend abruptly over rocky and mountainous land.

4.75 Hollow, 150 ft. deep, course N.

Abrupt ascent.

14.10 Ridge, bears NW. and SE.

Abrupt descent.

24.00 Hollow, 150 ft. deep, course NW.

Abrupt ascent.

40.00 Set an iron post, 3 ft. long, 1 in.dia., 26 ins.in the ground  
for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 28 on N.half S 33  
on S.half, and raise a mound of stone, 2 ft.base,  $1\frac{1}{2}$  ft.  
high, N.of cor.

Pits impracticable.

52.00 Rocky spur, projects N.

Abrupt descent.

67.00 Foot of abrupt descent, bears NE. and SW.

Over level and rocky land.

80.10 The cor.of secs. 28-29-32 and 33.

Land, mountainous and level.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 67.00 chn.

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N.9°02'W., bet. secs. 28 and 29.

Over level and rocky land.

95.00 Begin abrupt ascent over mountainous land, bearing E. and W.

98.00 Rocky spur, projects E.

Abrupt descent.

## SUBDIVISIONS OF T. 35. S., R. 17. W.

## CHAINS

- 32.00 Foot of abrupt descent, bears NE. and SW.  
Over level land, through sparse undergrowth.  
Leave rocky land.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground  
for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 29 on W.half, S.28  
on E.half, dig pits, 18x18x12 ins., N. and S.of post, 3 ft.  
dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
W.of cor.
- 80.00 Set an iron post, 3 ft. long, 2 ins.dia., 24 ins.in the  
ground, for cor.of secs.20-21-28 and 29, marked on brass cap  
T 35 S S 20 in NW.,  
R 17 W S 21 in NE.,  
S 28 in SE., and  
S 29 in SW.quadrant, dig pits, 18x18x12 ins., in each sec.,  
 $5\frac{1}{2}$  ft.dist., and raise a mound of earth, 4 ft.base, 2 ft.  
high,W.of cor.  
Land, mountainous and level.  
Soil, rocky, 3rd.rate on 32.00 chs.  
balance, loam, 1st.rate.
- No timber.  
Undergrowth, sage and shad scale.  
Mountainous land on 17.00 chs.
- 
- N.  $89^{\circ}56'N.$ , on a random line, bet.secs.21 and 28.
- 40.00 Set temp. $\frac{1}{4}$  sec.cor.
- 80.18 Intersect N. and S.line, 7 lks.S.of the cor.of secs.  
21-22-27 and 28.  
Thence I run  
S.  $89^{\circ}53'W.$ , on a true line,  
Bet.secs.21 and 28.
- Ascend over rocky and mountainous land.
- 6.50 Ridge, bears NW. and SE.  
Abrupt descent.
- 12.00 Foot of abrupt descent, bears NW. and SE.

## SUBDIVISIONS OF T.35. S., R.17. W.

CHAINS	
	Over level land, through sparse undergrowth.
40.09	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 21 on N. half S 28 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
80.18	The cor. of secs. 20-21-28 and 29. Land, mountainous and level. Soil, rocky on 12.00 chs., 3rd. rate. balance, loam, 1st. rate. No timber. Undergrowth, sage brush and shad scale. Mountainous land on 12.00 chs.
	N.0°02'W., bet. secs. 20 and 21.
	Over level land, through sparse undergrowth.
19.25	Road to Sevy and Clark. well bears NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 20 on W. half, S 21 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
60.75	Road, from Newcastle to Modena, bears NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 16-17-20 and 21, marked on brass cap, T 35 S S 17 in NW., R 17 W S 16 in NE., S 21 in SE., and S 20 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, level. Soil, loam, 1st. rate. No timber.

## SUBDIVISIONS OF T.35 S., R.17 W.

CHAINS

Undergrowth, sage brush and shad scale.

June 12: At this cor. I set off  $23^{\circ}10'N.$ , on decl. arc, and at 11h.59m., a.m., l.m.t., observe the sun on the meridian the resulting lat. is  $37^{\circ}46'N.$

$N.89^{\circ}53'W.$ , on a random line, bet. secs. 16 and 21.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.04 Intersect N. and S. line, 12 lks. N. of the cor. of secs. 15-16-21 and 22.

Thence I run

$S.89^{\circ}58'W.$ , on a true line,

Bet. secs. 16 and 21.

Over level land, through dense undergrowth.

40.02 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 16 on N. half, S 21 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

80.04 The cor. of secs. 16-17-20 and 21.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, greasewood and sage brush.

Dense undergrowth on 80.04 chs.

$N.0^{\circ}02'W.$ , bet. secs. 16 and 17.

Over level land, through sparse undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 17 on W. half, S 16 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 8-9-16 and 17, marked on brass cap, T 35 S S 8 in NW.,

## SUBDIVISIONS OF T.35 S., R.17 W.

CHAINS	
	R 17 W S 9 in NE., S 16 in SE., and S 17 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, loam, 1st. rate. No timber. Undergrowth, low sage brush and shad scale.
	N.89°58' E., on a random line, bet. secs. 9 and 16.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect N. and S. line, 3 lks. N. of the cor. of secs. 9-10-15 and 16. Thence I run S.89°59' W., on a true line, Bet. secs. 9 and 16. Over level land, through sparse undergrowth.
40.03	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 9 on N. half, S 16 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
80.06	The cor. of secs. 8-9-16 and 17. Land, level. Soil, loam, 1st. rate. No timber. Undergrowth, low sage brush and shad scale.
	N.0°02' W., bet. secs. 8 and 9. Over level land, through sparse undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 8 on W. half, S 9 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft.

## SUBDIVISIONS OF T.35 S., R.17 W.

CHAINS	
	dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 4-5-8 and 9, marked on brass cap  T 35 S S 5 in NW., R 17 W S 4 in NE., S 9 in SE. and S 8 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  Land, level.  Soil, loam, 1st. rate.  No timber.
2-00-06	Undergrowth, greasewood and sage brush.  N. 89° 59' E., on a random line, bet. secs. 4 and 9.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect N. and S. line, 3 lks. N. of the cor. of secs. 3-4-9 and 10.  Thence I run West, on a true line, Bet. secs. 4 and 9.  Over level land, through sparse undergrowth.
40.02	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 4 on N. half, S 9 on S half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
80.04	The cor. of secs. 4-5-8 and 9.  Land, level.  Soil, loam, 1st. rate.  No timber.  Undergrowth, sage brush and shad scale.

## SUBDIVISIONS OF T. 35 S., R. 17 W.

## CHAINS

N.  $0^{\circ}02'W.$ , on a random line, bet. secs. 4 and 5.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.51 Intersect N. bdy. of Tp., 38 lks. W. of the re-established cor. of secs. 4-5-32 and 33, heretofore described.  
 Thence I run  
 S.  $0^{\circ}14'W.$ , on a true line,  
 Bet. secs. 4 and 5.  
 Over level land, through sparse undergrowth.  
 40.51 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 5 on W. half S 4 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 80.51 The cor. of secs. 4-5-8 and 9.  
 Land, level.  
 20053 Soil, loam, 1st. rate.  
 No timber.  
 Undergrowth, sage brush and shad scale.

June 12, 1909

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June 13: At 7 a.m., 1.m.t., I set off  $37^{\circ}43'N.$ , on lat. arc,  $23^{\circ}13'N.$ , on decl. arc, and determine a meridian with the solar at the stan. cor. of secs. 31 and 32, heretofore described on the 7th. Stan. Par. South.  
 Thence I run

N.  $0^{\circ}03'W.$ , bet. secs. 31 and 32.  
 Descend over rocky and mountainous land.  
 14.00 Hollow, 100 ft. deep, course NW.  
 Abrupt ascent.  
 30.07 Rocky spur, projects W.  
 Abrupt descent.  
 39.75 Hollow, 100 ft. deep, course NW.  
 Ascend.  
 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the

## SUBDIVISIONS OF T.35 S., R.17 W.

## CHAINS

ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 31 on W. half, S 32 on E. half, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

43.00 Spur, projects NW.

Descend.

63.55 Hollow, 100 ft. deep, course NW.

Ascend.

72.40 Rocky spur, projects NW.

Abrupt descent.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 29-30-31 and 32, marked on brass cap  
T 35 S S 30 in NW.,  
R 17 W S 29 in NE.,  
S 32 in SE., and  
S 31 in SW. quadrant, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

From this cor. the well belonging to Sevy and Clark, bears N. 22° 50' W.

A corral is situated 1.00 ch. south east of the well.

Land, mountainous.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

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N. 89° 45' E., on a random line, bet. secs. 29 and 32.

40.00 Set temp.  $\frac{1}{4}$  sec.cor.

80.18 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 28-29-32 and 33.

Thence I run

S. 89° 43' W., on a true line,

Bet. secs. 29 and 32.

Over level and rocky land, through sparse undergrowth.

## SUBDIVISIONS OF T. 35 S., R. 17 W.

CHAINS	
40.09	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 29 on N.half, S 32 on S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
68.50	Begin abrupt ascent over mountainous land, bears NW. and SE.
77.00	Rocky spur, projects N. Descend.
80.18	The cor.of secs. 29-30-31 and 32. Land, level and mountainous. Soil, rocky, 3rd. rate. No timber. Mountainous land on 11.68 chs.
	Knowing from the retrace of the 7th. Stan. Par. South, that the line bet. secs. 30 and 31 will not close within limits on the west bdy. of the Tp., I run
	West, on a true line, bet. secs. 30 and 31.
	Descend over rocky and mountainous land.
3.25	Foot of mountainous land, bears NE. and SW. Over level land, through sparse undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 30 on N.half, S 31 on S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor. From this cor. the Sevy and Clark well bears N. $10^{\circ}18'E.$
80.44	Intersect the Third Auxiliary Guide Meridian, 74 lks. S. of the cor.of secs. 25-30-31 and 36, heretofore described. Set an iron post, 3 ft. long, 2 ins. dia. 24 ins. in the ground, for closing cor.of secs. 30 and 31, marked on brass cap T 35 S on N.half, S 25 S 36 C C R 18 W on W.half, and

## SUBDIVISIONS OF T. 35 S., R. 17 W.

## CHAINS

S 30 S 31 R 17 W on E. half, dig pits, 24x18x12 ins. crosswise on each line, N. and S., 3 ft. and E. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.

I destroy all marks on the cor. of secs. 25-30-31 and 36, that pertain to R. 17 W.

Land, mountainous and level.

Soil, rocky, 3rd. rate on 3.25 chs.

balance, loam, 1st. rate.

No timber.

Undergrowth, sage brush, and shad scale.  
Mountainous land on 3.25 chs.

N. 0° 03' W., bet. secs. 29 and 30.

Descend over rocky and mountainous land.

- 8.00 Leave mountainous land, bears NE. and SW.
- Over level land, through sparse undergrowth.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 30 on W. half, S 29 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 69.10 Road to the Sevy and Clark well bears NE. and SW.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 19-20-29 and 30, marked on brass cap  
T 35 S S 19 in NW.,  
R 17 W S 20 in NE.,  
S 29 in SE., and  
S 30 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
- 00-44 Land, mountainous and level.
- Soil, rocky on 8.00 chs., 3rd. rate.
- balance loam, 1st. rate.

## SUBDIVISIONS OF T.35 S., R.17 W.

CHAINS	
	No timber.
	Undergrowth, sage brush and shad scale.
	June 13: At this cor. I set off $23^{\circ}13'N.$ , on decl. arc, and at 12 M., l.m.t., observe the sun on the meridian, the resulting lat. is $37^{\circ}45'N.$
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	N. $89^{\circ}43'E.$ , on a random line, bet. secs. 20 and 29.
40.00	Set temp. $\frac{1}{4}$ sec.cor. and road to the Sevy and Clark well, bears NE. and SW.
80.10	Intersect N. and S. line, 14 lks. N. of the cor. of secs. 20-21-28 and 29.
	Thence I run
	S. $89^{\circ}49'W.$ , on a true line,
	Bet. secs. 20 and 29.
	Over level land, through sparse undergrowth.
23.00	Road to the Sevy and Clark well, bears NE. and SW.
40.05	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 20 on N. half, S 29 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
80.10	The cor. of secs. 19-20-29 and 30.
	Land, level.
	Soil, sandy, 2nd. rate.
	No timber.
	Undergrowth sage and shad scale.
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	West, on a true line,
	Bet. secs. 19 and 30.
	Over level land, through sparse undergrowth.
32.00	Road to Sevy and Clark well, bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 19 on N. half, S 30 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.

## SUBDIVISIONS OF T.35 S., R.17 W.

## CHAINS

high, N. of cor.

80.33 Intersect Third Auxiliary Guide Meridian, 81 lks. S. of the re-established cor. of secs. 19-24-25 and 30, heretofore described.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 19 and 30, marked on brass cap T 35 S on N half

S 24 S 25 CC R 18 W on W. half and

S 19 S 30 R 17 W on E. half, dig pits, 24x18x12 ins., crosswise on each line, N. and S. 3 ft. and E. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.

I destroy all marks on the cor. of secs. 19-24-25 and 30 that pertain to R. 17 W.

Land, level.

Soil, loam, 1st. rate.

Undergrowth, sage brush and shad scale.

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N. 0°03' W., bet. secs. 19 and 20.

Over level land, through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 19 on W. half, S 20 on E. half, dig pits, 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 17-18-19 and 20, marked on brass cap T 35 S S 18 in NW.,  
R 17 W S 17 in NE.,  
S 20 in SE., and

-00-23 S 19 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.

## SUBDIVISIONS OF T.35 S., R.17 W.

## CHAINS

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and greasewood.

Dense undergrowth on 80.00 chs.

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N.89°49'E., on a random line, bet. secs. 17 and 20.

40.00 Set temp.  $\frac{1}{4}$  sec.cor.

80.12 Intersect N. and S. line, 12 lks. S. of the cor. of secs.  
16-17-20 and 21.

Thence I run

S.89°44'W., on a true line,

Bet. secs. 17 and 20.

Over level land, through sparse undergrowth.

16.75 Road from Newcastle to Modena, bears NW. and SE.

40.06 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground,  
for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 17 on N.half, S 20  
on S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft.  
dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high  
N. of cor.

71.25 Road from Newcastle to Modena, bears NW. and SE.

80.12 The cor. of secs. 17-18-19 and 20.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and shad scale.

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West, on a true line, bet. secs. 18 and 19.

Over level land, through sparse undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground,  
for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 18 on N.half,  
S 19 on S.half, dig pits, 18x18x12 ins., E. and W. of post,  
3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft.  
high, N. of cor.

57.00 Road to Sevy and Clark well, bears NW. and SE.

## SUBDIVISIONS OF T.35 S., R.17 W.

## CHAINS

80.20

Intersect Third Auxiliary Guide Meridian, 70 lks. S. of the re-established cor. of secs. 13-18-19 and 24, heretofore described.

Set an iron post, 3 ft. long, 2 ins. dia. 24 ins. in the ground for closing cor. of secs. 18 and 19, marked on brass cap T 35 S on N. half,

S 13 S 24 CC R 18 W on W. half, and

S 18 S 19 R 17 W on E. half, dig pits, 24x18x12 ins., crosswise on each line, N. and S. 3 ft. and E. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.

I destroy all marks on the cor. of secs. 13-18-19 and 24 that pertain to R. 17 W.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and shad scale.

June 13, 1909

June 14: At 7 a.m., l.m.t., I set off  $37^{\circ}46'N.$ , on lat. arc,  $23^{\circ}17'N.$  on decl. arc, and determine a meridian with the solar at the cor. of secs. 17-18-19 and 20.

Thence I run

$N.0^{\circ}03'W.$ , bet. secs. 17 and 18.

Over level land, through sparse undergrowth.

2.50 Road from Newcastle to Modena bears NW. and SE.

36.50 Road from Newcastle to Modena, bears NW. and SE.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4} S 18$  on W. half, S 17 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground

## SUBDIVISIONS OF T.35 S., R.17 W.

## CHAINS

for cor.of secs.7-8-17 and 18, marked on brass cap  
 T 35 S S 7 in NW.,  
 R 17 W S 8 in NE.,  
 S 17 in SE., and  
 S 18 in SW.quadrant, dig pits, 18x18x12 ins., in each sec.,  
 5½ ft.dist., and raise a mound of earth, 4 ft.base, 2 ft.  
 high, W.of cor.  
 Land, level.  
 Soil, loam, 1st.rate.  
 No timber.  
 Undergrowth, sage brush and shad scale.

---

- N.89°44' E., on a random line, bet.secs.8 and 17.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 80.10 Intersect N.and S.line, 3 lks.S.of the cor.of secs.  
 8-9-16 and 17.  
 Thence I run  
 S.89°43' W., on a true line,  
 Bet.secs.8 and 17.  
 Over level land, through sparse undergrowth.
- 40.05 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground  
 for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 8 on N.half, S 17  
 on S.half, dig pits, 18x18x12 ins., E.and W.of post, 3 ft.  
 dist., and raise a mound of earth, 3½ ft.base, 1½ ft.high,  
 N.of cor.
- 80.10 The cor.of secs.7-8-17 and 18.  
 Land, level.  
 Soil, loam, 1st.rate.  
 No timber.  
 Undergrowth, sage brush and shad scale.
-

## SUBDIVISIONS OF T.35 S., R.17 W.

## CHAINS

- West, on a true line, bet. secs. 7 and 18.  
 Over level land, through sparse undergrowth.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 7 on N. half, S 18 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 79.90 Road from Newcastle to Modena bears NW. and SE.
- 80.14 Intersect Third Auxiliary Guide Meridian, 76 lks. S. of the re-established cor. of secs. 7-12-13 and 18, heretofore described.  
 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for closing cor. of secs. 7 and 18, marked on brass cap, T 35 S on N. half,  
 S 12 S 13 CC R 18 W on W. half, and  
 S 7 S 18 R 17 W on E. half, dig pits, 24x18x12 ins., crosswise on each line, N. and S., 3 ft. and E. of post 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.
- I destroy all marks on the cor. of secs. 7-12-13 and 18 that pertain to R. 17 W.
- Land, level.
- Soil, loam, 1st. rate.
- No timber.
- Undergrowth, sage brush and shad scale.

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N. 0°03' W., bet. secs. 7 and 8.

- Over level land, through sparse undergrowth.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 7 on W. half, S 8 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist. and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 5-6-7 and 8, marked on brass cap

## SUBDIVISIONS OF T.35 S., R.17 W.

	CHAINS
	T 35 S S 6 in NW.,
	R 17 W S 5 in NE.,
	S 8 in SE.and
	S 7 in SW.quadrant, dig pits, 18x18x12 ins., in each sec.,
	5½ ft.dist., and raise a mound of earth, 4 ft.base, 2 ft.high W.of cor.
	Land, level.
	Soil, loam, 1st.rate.
	No timber.
	Undergrowth, sage brush and shad scale.
	N.89°43'E., on a random line, betsecs.5 and 8.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.08	Intersect N.and S.line, 7 lks.S.of the cor.of secs. 4-5-8 and 9.
	Thence I run
	S.89°40'W., on a true line,
	Bet.secs.5 and 8.
	Over level land, through sparse undergrowth.
40.04	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 5 on N.half, S 8 on S.half, dig pits, 18x18x12 ins., E.and W.of post, 3 ft. dist., and raise a mound of earth, 3½ ft.base, 1½ ft.high, N.of cor.
80.08	The cor.of secs.5-6-7 and 8.
	Land, level.
	Soil, loam, 1st.rate.
	No timber.
	Undergrowth, sage brush and shad scale.
	June 14: At this cor.I set off 23°16'N., on decl.arc, and at 12 M., l.m.t., observe the sun on the meridian, the resulting lat.is 37°48'N.

## SUBDIVISIONS OF T.35 S., R.17 W.

## CHAINS

West, on a true line, bet. secs. 6 and 7.

Over level land, through sparse undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 6 on N.half, and S 7 on S.half, dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N.of cor.

79.98 Intersect Third Auxiliary Guide Meridian, 76 lks.S. of the re-established cor.of secs. 1-6-7 and 12, heretofore described.

Set an iron post, 3 ft. long, 2 ins. dia, 24 ins. in the ground for closing cor.of secs. 6 and 7, marked on brass cap, T 35 S on N.half,

S 1 S 12 CC R 18 W on W.half, and

S 6 S 7 R 17 W on E.half, dig pits, 24x18x12 ins., crosswise on each line, N. and S., 3 ft. and E. of post 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, E.of cor.

I destroy all marks on the cor.of secs. 1-6-7 and 12, that pertain to R.17 W.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and shad scale.

---

N.0°03'W., on a random line, bet. secs. 5 and 6.

40.00 Set temp. $\frac{1}{4}$  sec.cor.

80.98 Intersect N.bdy. of Tp., 37 lks.W. of the re-established cor.of secs. 5-6-31 and 32, heretofore described.

Thence I run

S.0°13'W., on a true line,

Bet. secs. 5 and 6.

Over level land, through sparse undergrowth.

40.98 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground

## SUBDIVISIONS OF T. 35 S., R. 17 W.

## CHAINS

for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 6 on W.half, S 5 on E.half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W.of cor.

49.61 Wash, 10 lks.wide, 4 ft. deep, course NE.

80.98 The cor. of secs. 5-6-7 and 8.

Land, level.

Soil, loam, 1st. rate.

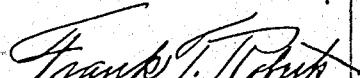
No timber.

Undergrowth, sage brush and shad scale.

1-16-78  
June 14, 1909

## GENERAL DESCRIPTION.

This township lies in Escalante Valley and with the exception of about 6 sections in the southern portion is level and covered with a growth of desert brush and grasses, making it an excellent winter stock range. The 6 sections in the southern portion are rocky, and cut by hollows and are unfit for anything but grazing. The soil of the level portion is a rich black loam capable of producing crops with irrigation: in the eastern portion there are stretches of shifting sand. There is no timber growing on this township. There is no surface water in this township: the Sevy and Clark well in the NE  $\frac{1}{4}$  of sec. 30, is about 80 ft. deep, with a never failing supply of water which is utilized for stock watering. There are no settlers or indications of mineral in this township.



U.S. Deputy Surveyor

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by \_\_\_\_\_

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_

showing the respective capacities in which they acted:

15

or list of names and final oaths of assistants see book "Z", Chainman.

T. 34 S., R. 12 W. ...., Chainman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted \_\_\_\_\_

....., United States Deputy Surveyor, in surveying all those parts or portions of the \_\_\_\_\_

of the \_\_\_\_\_

meridian, ..... of ..... which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for \_\_\_\_\_

....., Chainman.

....., Chainman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190 \_\_\_\_\_ }



## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, bearing date of \_\_\_\_\_, United States Surveyor General for \_\_\_\_\_, day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_.  
For final oath of deputy see book "Z" T. 34 S., R. 12 W.

of the \_\_\_\_\_  
meridian, in the \_\_\_\_\_ of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190 }



## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1910, X

The foregoing field notes of the survey of \_\_\_\_\_ the Subdivisional lines of Township 35 South, Range 17 West of the Salt Lake Base and Meridian, Utah,

executed by \_\_\_\_\_ Frank T. Roberts  
under his contract No. 313, dated April 5, 190\_\_\_\_\_, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

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C O R R E C T I V E

FILED

FEB 21 1910

*W.H.H.**m.s.63.*

## FIELD NOTES

To Book "E" Original Notes

OF THE SURVEY OF THE

## SUBDIVISIONS

of

TOWNSHIP NO. 35 SOUTH, RANGE NO. 17 WEST,

Of the Salt Lake Base and Meridian,

in the state of Utah

## AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,

Under his Contract No. 313, dated April 5, 1909

Survey commenced February 13, 1909

Survey completed February 13, 1909

## BOOK A-355

## NAMES AND DUTIES OF ASSISTANTS.

Harvey D. Heist,ChainmanWalter A. Stumm,"Harvey D. Heist,MoundmanWalter A. Stumm,FlagmanFor preliminary affidavits see book 1 Corrective Notes T. 35 S., R.13 W.

## BOOK A-355

## INDEX DIAGRAM.

*Township* ..... *Range* .....

•	2	4	6	8	10	12
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19	20	21	22	23	24	
20	22	24	26	28	29	30
31	32	33	34	35	36	37

*Meanders Page* .....

## PRELIMINARY OATHS OF ASSISTANTS.

WE, \_\_\_\_\_ and \_\_\_\_\_ do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of \_\_\_\_\_

, Chainman.

, Chainman.

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190 \_\_\_\_\_ }



WE, \_\_\_\_\_ and \_\_\_\_\_ do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of \_\_\_\_\_

, Moundman.

, Moundman.

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190 \_\_\_\_\_ }



WE, \_\_\_\_\_ and \_\_\_\_\_ do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of \_\_\_\_\_

, Arman.

, Arman.

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190 \_\_\_\_\_ }



I, \_\_\_\_\_, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of \_\_\_\_\_

, Flagman.

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190 \_\_\_\_\_ }



## CORRECTIVE NOTES OF THE SUBDIVISIONS OF T.35 S., R.17 W.

## CHAINS

Survey commenced February 13, 1910 and executed with the instrument described in book "A", of original survey.

At 8h.14m., a.m., I set off  $37^{\circ}44'N.$  on lat.arc,  $13^{\circ}27'S.$  on decl.arc, and determine a meridian with the solar at the cor. of secr. 27-28-33 and 34, described in original field notes.

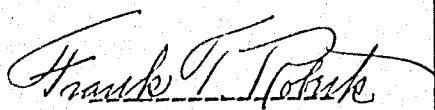
Thence I run

$N.0^{\circ}03'W.$ , bet. secs. 27 and 28.

- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec.cor., marked on brass cap,  $\frac{1}{2} S 28$  on W. half, <sup>See Orig. Notes Book</sup> and  $S 27$  on E. half, dig pits,  $18 \times 18 \times 12$  ins., N. and S. of post, <sup>Page 19</sup> 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 40.19 The original  $\frac{1}{2}$  sec.cor. bears W. 2 lks. dist.  
I destroy all traces of the original  $\frac{1}{2}$  sec.cor.
- 80.00 The cor. of secs. 21-22-27 and 28.  
There is no change of topography on this line.

February 13, 1910.

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U.S. Deputy Surveyor

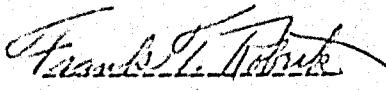
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## CORRECTIVE SURVEY OF SUBDIVISIONS OF T.35 S., R.17 W.

## Note:

There being no notary public or other officer, authorized to administer oaths within a reasonable distance at the beginning or ending of this survey, in order to save time and expense, I administer the preliminary and final oaths for the corrective survey of Contract No. 313, myself.

  
U.S. Deputy Surveyor

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## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by Frank T. Roberts,  
 ..... United States Deputy Surveyor, to assist in running, measuring, and  
 marking the lines and corners described in the foregoing field notes of the survey of .....  
 corrective  
 the subdivisions of T. 35 S., Rs. 13, 14, 17 and 19 W., S.L.B. & M., in the  
 state of Utah.  
 showing the respective capacities in which they acted:

Harvey D. Heist, ..... , Chainman.

Walter A. Stumm, ..... , Chainman.

Harvey D. Heist, ..... , Moundman.

..... , Moundman.

..... , Axman.

..... , Axman.

Walter A. Stumm, ..... , Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Frank T. Roberts,  
 ..... United States Deputy Surveyor, in surveying all  
 those parts or portions of the subdivisions of T. 35 S., Rs. 13, 14, 17 and 19 W.,

..... of the Salt Lake  
 Base and ..... meridian, in the state of Utah, ..... which are represented  
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
 corner monuments established, according to the instructions furnished by the United States Surveyor  
 General for Utah

Harvey D. Heist, ..... , Chainman.

Walter A. Stumm, ..... , Chainman.

Harvey D. Heist, ..... , Moundman.

..... , Moundman.

..... , Axman.

..... , Axman.

Walter A. Stumm, ..... , Flagman.

Subscribed and sworn to before me this 13th....  
 day of February, 19010 {

Frank T. Roberts

U.S. Deputy Surveyor

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000000  
000000

## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Frank T. Roberts, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Thomas Hull, United States Surveyor General for Utah, bearing date of the 5th day of April, 190<sup>10</sup>, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the Corrective United States, surveyed all those parts or portions of the subdivisions of T. 35 S., Rs. 13, 14, 17 and 19 W.,

of the Salt Lake Base

and LAND BOOKS 1, 2, 3 & 4 meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said Frank T. Roberts, and sworn to before me,

this 21 day of February, 1910.



Thomas Hull  
U.S. Surveyor General

for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1910

corrective

The foregoing field notes of the survey of Subdivision of Township No. 35 South Range No. 17 West of the Salt Lake Base and Meridian, Utah,

executed by Frank T. Roberts

under his contract No. 313, dated April 5,

CORRECTIVE having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in ....., has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-355

# FIELD NOTES

*m.s.b.*  
RE  
OF THE SURVEY OF THE

SEVENTH STANDARD PARALLEL SOUTH

through

RANGE NO. 18 WEST,

of the Salt Lake Base and Meridian,  
in the state of Utah.

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,

Under his Contract No. 313, dated April 5, 1909

Survey commenced June 14, 1909

Survey completed June 16, 1909

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Book A-355

**NAMES AND DUTIES OF ASSISTANTS.**

Sterling Wright, Chairman

Earl V. Woolley, "

Warren Stratton, "

Claude L. Heist, "

Erastus B. Dalley, Moundman

George B. McConnell, "

Joseph D. Foster, Axman

Rodney B. Shelley, Flagman

## BOOK A-355

## INDEX DIAGRAM.

*Township 35 South, Range 18 West,*

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19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
7	6	5	4	3	2

*Meanders Page*

## PRELIMINARY OATHS OF ASSISTANTS.

We, Sterling Wright, F. V. Woolley, and Warren Stratton, Claude L. He do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the 7th. Stan. Par. S., through Rs. 14, 18, 19 and 20 W., S.L.B. & M., in the state of Utah.

*Sterling Wright* *F. V. Woolley*, Chainman  
*Warren Stratton* *Claude L. Heist*, Chainman

Subscribed and sworn to before me this 14th.

day of June, 1909



*Frank T. Roberts*

U.S. Deputy Surveyor

We, Erastus B. Dalley, and George B. McConnell, do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the 7th. Stan. Par. S., through Rs. 14, 18, 19 and 20 W., S.L.B. & M., in the state of Utah.

*Erastus B. Dalley*, Moundman  
*George B. McConnell*, Moundman

Subscribed and sworn to before me this 14th.

day of June, 1909



*Frank T. Roberts*

U.S. Deputy Surveyor

We, I., Joseph D. Foster, do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given me, to the best of my skill and ability, in the survey of the 7th. Stan. Par. S., through Rs. 14, 18, 19 and 20 W., S.L.B. & M., in the state of Utah.

*Joseph D. Foster*, Axman

Subscribed and sworn to before me this 14th.

day of June, 1909



*Frank T. Roberts*

U.S. Deputy Surveyor

I., Rodney B. Shelley, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the 7th. Stan. Par. S., through Rs. 14, 18, 19 and 20 W., S.L.B. & M., in the state of Utah.

*Rodney B. Shelley*, Flagman

Subscribed and sworn to before me this 14th.

day of June, 1909



*Frank T. Roberts*

U.S. Deputy Surveyor

## RESURVEY OF THE 7TH. STANDARD PARALLEL SOUTH, through R.18 W.

CHAINS

Survey commenced June 14, 1909, and executed with the instrument described in book "A", of this survey.

I examine the adjustments of the transit and correct the level and collimation errors, then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the stan.cor.of T.35 S., Rs.17 and 18 W. heretofore described on the 7th. Standard Parallel South, in approximate latitude  $37^{\circ}43'N.$ , longitude  $113^{\circ}46'W.$ , I set off  $37^{\circ}43'N.$ , on lat.arc,  $23^{\circ}17'N.$ , on decl.arc, and at 4h.0m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs.N. of the cor.

June 14, 1909

June 15: At 1h.58m., a.m., l.m.t., I observe Polaris at eastern elongation in accordance with Manual of Instructions and mark a point in the line thus determined on a peg, driven in the ground, 5 chs.N. of my station.

At 6 a.m., I lay off the azimuth of Polaris,  $1^{\circ}29'$  to the west and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian fall 0.3 ins. east of the mark determined by the solar.

At 7 a.m., l.m.t., I set off  $37^{\circ}43'N.$  on lat.arc,  $23^{\circ}20'N.$  on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0'16''$  west and east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the

## RESURVEY OF THE 7TH. STANDARD PARALLEL SOUTH, through R. 18 W.

## CHAINS

instrument are satisfactory.

The magnetic bearing of the true meridian at 7h.30m., a.m. is N. 16° 10' W., the angle thus determined gives the mag.decl. 16° 10' E.

From the stan.Tp. cor.already described I run west, retracing on the S.bdy.of sec.36, at 40.17 the stan.  $\frac{1}{4}$  sec.cor.bears N. 22 lks. and at 80.24 chs. the stan.cor. of secs.35 and 36 bears N.46 lks., I continue my line west and find the line to be out of limits for course, and as there being no subdivisions dependent upon it I resurvey this line as follows:

June 15, 1909.

June 16: At 7 a.m., 1.m.t., I set off 37° 43' N., on lat.arc, 23° 22' N., on decl.arc, and determine a meridian with the solar at the stan.cor.of Tp.35 S., Rs.17 and 18 W.

Thence I run

West, on S.bdy.of sec.36.

Descend over rolling and rocky land,through sparse undergrowth.

29.501 Hollow, 75 ft. deep; course NW.

Ascend.

Intersect the closing cor.for T.36 S., Rs.17 and 18 W., which is a granite stone 5x9x4 ins.above the ground, marked and witnessed as described by the surveyor general.

34.90 Road, from St.George to Modena, bears NW. and SE.

Difference between measurement of 40.00 chs. by two sets of chainmen is 6 lks. position of middle point,

By 1st.set, 40.03 chs.,

By 2nd.set, 39.97 chs., the mean of which is

40.00 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground for re-established stan. $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 36 on N.half, and raise a mound of stone, 2 ft.base,  $1\frac{1}{2}$  ft.high, N.of cor.

Pits impracticable.

## RESURVEY OF THE 7TH. STANDARD PARALLEL SOUTH, through R.18 W.

cc 13

	CHAINS I destroy all traces of the old stan. $\frac{1}{4}$ sec.cor.
65.46	Rocky spur, projects NW. Abrupt descent.
79.75	Foot of abrupt descent, bears N. and S. Difference between measurement of 80.00 chs., by two sets of chainmen is 12 lks., position of middle point By 1st.set, 79.94 chs., By 2nd.set, 80.06 chs., the mean of which is
80.00	Set an iron post, 3 ft. long, 3 in. dia., 24 ins. in the ground, for re-established stan.cor. of secs. 35 and 36, marked on brass cap T 35 S S 35 in NW., and R 18 W S 36 in NE. quadrant, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. I destroy all traces of the old stan sec.cor. Land, rolling and mountainous. Soil, rocky, 3rd.rate. No timber. Undergrowth, sage brush. Mountainous land on 14.29 chs.
	West, on S.bdy.of sec.35. Over level land, through sparse undergrowth. Difference between measurement of 40.00 chs., by two sets of chainmen is 6 lks., position of middle point By 1st.set, 39.97 chs., By 2nd.set, 40.03 chs., the mean of which is
40.00	Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground, for re-established stan. $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 35 on N.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft.dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor. No trace can be found of the old stan. $\frac{1}{4}$ sec.cor. Difference between measurement of 80.00 chs., by two sets of chainmen is 8 lks., position of middle point

## RESURVEY OF THE 7TH. STANDARD PARALLEL SOUTH, through R.18 W.

CHAINS	
	By 1st.set, 80.04 chs.,
	By 2nd.set, 79.96 chs., the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins.dia., 24 ins.in the ground for re-established stan.cor.of secs.34 and 35, marked on brass cap T 35 S S 34 in NW. and R 18 W S 35 in NE. quadrant, dig pits, 24x18x12 ins., crosswise on each line, E. and W. 3 ft. and N. of post, 7 ft.dist., and raise a mound of earth, 4 ft.base, 2 ft.high, N. of cor. I destroy all traces of the old stan.sec.cor. which bears N. 49°W., 92 lks.dist.
	Land, level.
	Soil, loam.
	No timber.
	Undergrowth, low sage brush.
	West, on S.bdy.of sec.34.
	Over level land, through sparse undergrowth.
6.55	Road from Enterprise to Modena, bears NW. and SE.
6.67	Telephone line, bears NW. and SE.
	Difference between measurement of 40.00 chs., by two sets of chainmen is 4 lks., position of middle point
	By 1st.set, 40.02 chs.,
	By 2nd.set, 39.98 chs., the mean of which is
40.00	Set an iron post, 3 ft. long, 1 in.dia., 26 ins.in the ground, for re-established stan. <sup>1/4</sup> sec.cor., marked on brass cap $\frac{1}{4}$ S 34 on N.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft.dist., and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft. high, N. of cor. No trace of old stand. <sup>1/4</sup> cor. could be found Difference between measurement of 80.00 chs. by two sets of chainmen is 8 lks., position of middle point
	By 1st.set, 80.04 chs.,
	By 2nd.set, 79.96 chs., the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins.dia., 24 ins.in the ground for re-established stan.cor.of secs.33 and 34, marked on

## RESURVEY OF THE 7TH STANDARD PARALLEL SOUTH, through R.18 W.

## CHAINS

brass cap, T 35 S S 33 in NW. and R 18 W S 34 in NE. quadrant  
dig pits, 24x18x12 ins., crosswise on each line, E. and W.

3 ft. and N. of post, 7 ft. dist., and raise a mound of earth  
4 ft. base, 2 ft. high, N. of cor.

I destroy all traces of the old stan.sec.cor. which bears  
N. 23° W., 143 lks. dist.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush.

June 16: At this cor. I set off 23° 22' N., on decl. arc, and  
at 12 M., l.m.t., observe the sun on the meridian, the  
resulting lat. is 37° 43' N.

West, on S.bdy. of Sec.33.

Over level land, through sparse undergrowth.

Difference between measurement of 40.00 chs., by two sets  
of chainmen is .8 lks., position of middle point

By 1st.set, 39.96 chs.,

By 2nd.set, 40.04 chs., the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground  
for re-established stan. $\frac{1}{4}$  sec.cor., marked on brass cap,  
 $\frac{1}{4}$  S 33 on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$   
ft. high, N. of cor.

Pits impracticable.

I destroy all traces of the old stan. $\frac{1}{4}$  sec.cor. which  
bears N. 22° W., 176 lks. dist.

Difference between measurement of 80.00 chs., by two sets  
of chainmen is 6 lks., position of middle point

By 1st.set, 80.03 chs.,

By 2nd.set, 79.97 chs., the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground  
for re-established stan.cor. of secs. 32 and 33, marked on  
brass cap, T 35 S S 32 in NW., and R.18 W S 33 in NE.

## RESURVEY OF THE 7TH. STANDARD PARALLEL SOUTH, through R. 18 W.

## CHAINS

quadrant, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high  
N.of cor.

Pits impracticable.

I destroy all traces of the old stan. $\frac{1}{4}$  sec.cor. which  
bears N.22°30'W., 186 lks.dist.

Land, level.

Soil, granite debris, 2nd.rate.

No timber.

Undergrowth, sage brush and bunch grass.

West, on S.bdy.of sec. 32.

Ascend over rolling land, through dense undergrowth.

Difference between measurement of 40.00 chs., by two sets  
of chainmen is 12 lks., position of middle point

By 1st.set, 40.06 chs.,

By 2nd.set, 39.94 chs., the mean of which is

40.00 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground,  
for re-established stan. $\frac{1}{4}$  sec.cor., marked on brass cap  
 $\frac{1}{4}$  S 32 on N.half, dig pits, 18x18x12 ins., E. and W.of post,  
3 ft.dist., and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.  
high, N.of cor.

I destroy all traces of the old stan. $\frac{1}{4}$  sec.cor. which  
bears N.24°W., 190 lks.dist.

Difference between measurement of 80.00 chs., by two sets  
of chainmen is 10 lks., position of middle point

By 1st.set, 80.05 chs.,

By 2nd.set, 79.95 chs., the mean of which is

80.00 Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the ground  
for re-established stan.cor.of secs.31 and 32, marked on  
brass cap, T 35 S S 31 in NW.and R. 18 W S 32 in NE.  
quadrant, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high,  
N.of cor.

Pits impracticable.

## RESURVEY OF THE 7TH STANDARD PARALLEL SOUTH, through R.18 W.

## CHAINS

I destroy all traces of the old stan.sec.cor., which bears N. 26° 30' W., 201 lks.dist.

Land, rolling.

Soil, rocky, 2nd.rate.

No timber.

Undergrowth, sage brush and bunch grass.

Dense undergrowth on 80.00 chs.

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West, on S.bdy.of sec.31.

Ascend over rolling land, through dense undergrowth.

Difference between measurement of 40.00 chs., by two sets of chainmen is 8 lks., position of middle point

By 1st.set, 40.04 chs.,

By 2nd.set, 39.96 chs., the mean of which is

40.00 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground for stan. $\frac{1}{4}$  sec.cor., marked on brass cap  $\frac{1}{4}$  S 31 on N.half, and raise a mound of stone, 2 ft.base,  $1\frac{1}{2}$  ft.high, N.of cor. Pits impracticable.

I destroy all traces of the old stan. $\frac{1}{4}$  sec.cor., which bears N. 28° W., 211 lks.dist.

Difference between measurement of 80.00 chs., by two sets of chainmen is 10 lks., position of middle point

By 1st.set, 80.05 chs.,

By 2nd.set, 79.95 chs., the mean of which is

80.00 Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the ground, for re-established standard cor.of Tps.35 S., Rs. 18 and 19 W., marked on brass cap

T 35 S on N.half,

R 19 W S 36 in NW., and

R 18 W S 31 in NE.quadrant, and raise a mound of stone 2 ft.base,  $1\frac{1}{2}$  ft.high, N.of cor.

Pits impracticable.

I destroy all traces of the old stan.Tp.cor., which bears N. 29° W., 189 lks.dist.

## RESURVEY OF THE 7TH. STANDARD PARALLEL SOUTH, through R.18 W.

## CHAINS

Land, rolling.

Soil, rocky, 2nd. rate.

No timber.

Undergrowth, sage brush and bunch grass.

Dense undergrowth on 80.00 chs.

June 16, 1909

For General Description, see Subdivisions of

T.35 S., R.18 W.

*Frank T. Hobart*  
U.S. Deputy Surveyor

**FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.****LIST OF NAMES.**

A list of the names of the individuals employed by \_\_\_\_\_

\_\_\_\_\_, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_

showing the respective capacities in which they acted:

\_\_\_\_\_, *Chainman.*

For list of names and final oath of assistants see book "Z", *Chainman.*

T. 35 S., R. 14 W., \_\_\_\_\_, *Moundman.*

\_\_\_\_\_, *Moundman.*

\_\_\_\_\_, *Axman.*

\_\_\_\_\_, *Axman.*

\_\_\_\_\_, *Flagman.*

**FINAL OATH OF ASSISTANTS.**

We hereby certify that we assisted \_\_\_\_\_

\_\_\_\_\_, United States Deputy Surveyor, in surveying all those parts or portions of the \_\_\_\_\_

of the \_\_\_\_\_

meridian, \_\_\_\_\_ of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for \_\_\_\_\_

\_\_\_\_\_, *Chainman.*

\_\_\_\_\_, *Chainman.*

\_\_\_\_\_, *Moundman.*

\_\_\_\_\_, *Moundman.*

\_\_\_\_\_, *Axman.*

\_\_\_\_\_, *Axman.*

\_\_\_\_\_, *Flagman.*

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190 \_\_\_\_\_ }



## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, bearing date of the \_\_\_\_\_, day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_.

For final oath of deputy see book "Z" T. 35 S., R. 14 W.

..... of the .....  
meridian, in the ..... of ..... which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

*United States Deputy Surveyor*

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190 }



## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1919

The foregoing field notes of the survey of \_\_\_\_\_ the Seventh Standard Parallel South through Range 18 West of the Salt Lake Base and Meridian, Utah,

executed by \_\_\_\_\_ Frank T. Roberts

under his contract No. 313, dated April 5, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys they describe, are hereby approved.

*Thomas Hull*  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-355

# FIELD NOTES

*m.s.b.*

RE  
OF THE SURVEY OF THE

NORTH and WEST BOUNDARIES

of

TOWNSHIP NO. 35 SOUTH, RANGE NO. 18 WEST,

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,

Under his Contract No. 313, dated April 5, 1909

Survey commenced June 17, 1909

Survey completed June 19, 1909

6-161

190 N.B.S. 6-07-32  
See H. K. Day 6-01-46 ~ 0-07-39 Drawing  
12-08-74

**NAMES AND DUTIES OF ASSISTANTS.**

Earl V. Woolley, ..... Chainman

Claude L. Heist, ..... "

W. Warren Stratton ..... Moundman

Sterling Wright II, ..... "

Joseph D. Foster, ..... Axman

Rodney R. Shelley, ..... Flagman

For additional information see book "A", T. 35 S., R. 17 E.

## BOOK A-355

## INDEX DIAGRAM.

*Township 35 South, Range 18 West,*

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7 30	29	28	27	26	25
6 31	32	33	34	35	36

*Meanders Page*

## PRELIMINARY OATHS OF ASSISTANTS.

We, ..... and .....

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lay the chain upon even and unbroken ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we may be measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of ..... , on the day of ..... 190.....

*Chainsman*

Subscribed and sworn to before me this .....

day of ..... 190.....



We, ..... and ....., do solemnly swear that we will well and truly perform the duties of mounthorn in the establishing of corners, according to the instructions given us, to the best of our skill and ability, in the survey of ..... , on the day of ..... 190.....

*Mouthorn*

Subscribed and sworn to before me this .....

day of ..... 190.....



We, ..... and ....., do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of ..... , on the day of ..... 190.....

*Axmen*

Subscribed and sworn to before me this .....

day of ..... 190.....



I, ..... do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of ..... , on the day of ..... 190.....

*Flagman*

Subscribed and sworn to before me this .....

day of ..... 190.....



## RESURVEY OF THE NORTH BOUNDARY OF T.35 S., R.18 W.

CHAINS

Survey commenced, June 17, 1909, and executed with the instrument described in book "A", of this survey. I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 34 and 35 S., Rs. 17 and 18 W. heretofore described on the Third Auxiliary Guide Meridian in approximate latitude  $37^{\circ}49'N.$ , longitude  $113^{\circ}46'W.$ , I set off  $37^{\circ}49'N.$ , on lat.arc,  $23^{\circ}24'N.$ , on decl.arc, and at 4h.01m., p.m.i.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs.N. of the cor.

June 17, 1909

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June 18: At 1h.46m., a.m., l.m.t., I observe Polaris at eastern elongation in accordance with Manual of Instructions and mark a point in the line thus determined on a peg, driven in the ground, 5 chs.N. of my station.

At 6 a.m., I lay off the azimuth of Polaris,  $1^{\circ}29'$  to the west and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.2 ins. east of the mark determined by the solar.

At 7h.01m., a.m., l.m.t., I set off  $37^{\circ}49'N.$ , on lat.arc,  $23^{\circ}26'N.$ , on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs.N. of my station; this mark falls 0.2 ins. east of the meridian established by the Polaris observation. The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0'11''$  west and east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments

## RESURVEY OF THE NORTH BOUNDARY OF T.35 S., R.18 W.

## CHAINS

of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h.30m., a.m. is N.16°10'W., the angle thus determined gives the mag.decl.16°10'E.

From the Tp., cor.already described, I run West, on a random line along the N.bdy.of Tp.35 S., R.18 W., setting temp. $\frac{1}{4}$  sec. and sec.cors. at intervals of 40.00 chs. and at 487.32 chs., fall 168 lks.S. of the cor.of Tps. 34 and 35 S., Rs.18 and 19 W., which is a granite stone, 10x10x4 ins. above ground, marked and witnessed as described by the surveyor general.

The falling answers to a correction of 0°12'. or 28 lks. N. per mile, counting from the NE.cor.of the Tp.,

June 18: At this cor.I set off 23°25'N., on decl.arc, and at 0h.0lm., p.m., l.m.t., observe the sun on the meridian, the resulting lat.is 37°49'N.

Thence I run

S.89°48'E., bet.secs.6 and 31.

Gradual descent over rolling land, through sparse undergrowth.

32.01 The old  $\frac{1}{4}$  sec.cor.bears N.1.42 chs.

47.32 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for re-established  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S.31 on N.half and S.6 on S.half, dig pits, 18x18x12 ins., E. and W. post,  $\frac{3}{2}$  ft.dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.high, N.of cor.

I destroy all traces of the old  $\frac{1}{4}$  sec.cor.

72.33 The old cor.of secs.5-6-31 and 32 bears N.1.10 chs.

87.32 Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the ground for re-established cor.of secs.5-6-31 and 32, marked on brass T. 34 S. S. 31 in NW., R. 18 W. S. 32 in NE., R. 18. W S. 5 in SE., and T. 35 S. S. 6 in SW.quadrant, dig pits, 18x18x12 ins.in each

## RESURVEY OF THE NORTH BOUNDARY OF T.35 S., R.18 W.

## CHAINS

sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base,  
2 ft. high, W. of cor.  
I destroy all traces of the old sec.cor.  
Land, rolling.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and bunch grass.

S.89°48'E., betsecs.5 and 32.

Over level land, through sparse undergrowth.

32.39 The old  $\frac{1}{4}$  sec.cor.bears N.63 lks.dist.

40.00 Set an iron post, 3 ft. long, 1 in.dia., 26 ins.in the ground  
for re-established  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 32  
on N.half, S 5 on S.half, dig pits, 18x18x12 ins., E. and W.  
of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  
 $1\frac{1}{2}$  ft. high, N. of cor.

I destroy all traces of the old  $\frac{1}{4}$  sec.cor.

72.47 The old cor.of secs.4-5-32 and 33 bears N.57 lks.dist.

80.00 Set an iron post, 3 ft. long, 3 ins.dia., 24 ins.in the ground  
for re-established cor.of secs.4-5-32 and 33, marked on  
brass cap, T 34 S S 32 in NW.,

R 18 W S 33 in NE.,

R 18 W S 4 in SE., and

T 35 S S 5 in SW.quadrant, dig pits, 18x18x12  
ins.in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth  
4 ft. base, 2 ft. high, W. of cor.

I destroy all traces of the old sec.cor.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and bunch grass.

## RESURVEY OF THE NORTH BOUNDARY OF T.35 S., R.18 W.

CHAINS	
	S.89°48'E., bet. secs. 4 and 33.
	Over level land, through sparse undergrowth.
23.00	Road from Newcastle to Modena, bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 33 on N.half, S 4 on S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor. No trace can be found of the old $\frac{1}{4}$ sec.cor.
72.70	The old cor.of secs. 3-4-33 and 34, bears N.1.41 chs.
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for re-established cor.of secs. 3-4-33 and 34, marked on brass cap, T.34 S S 33 in NW., R 18 W S 34 in NE., R 18 W S 3 in SE., and T 35 S S 4 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. I destroy all traces of the old sec.cor. Land, level. Soil, loam, 1st. rate. No timber. Undergrowth, sage brush and bunch grass.
	S.89°48'E., bet. secs. 3 and 34.
	Over level land, through sparse undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 34 on N.half, S 3 on S.half, dig pits, 18x18x12' ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor. No trace can be found of the old $\frac{1}{4}$ sec.cor.
73.01	The old cor.of secs. 2-3-34 and 35 bears N.1.66 chs.
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground

## RESURVEY OF THE NORTH BOUNDARY OF T. 35 S., R. 18 W.

## CHAINS

for re-established cor. of secs. 2-3-34 and 35, marked on brass cap, T 34 S S 34 in NW.,

R 18 W S 35 in NE.,

R 18 W S 2 in SE., and

T 35 S S 3 in SW. quadrant, dig pits, 18x18x12 ins. in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

I destroy all traces of the old sec.cor.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and bunch grass.

S. 89° 48' E., bet. secs. 2 and 35.

Over level land, through sparse undergrowth.

33.15 The old  $\frac{1}{4}$  sec.cor. bears N. 151 chs.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established sec.cor., mkd.  $\frac{1}{4}$ , S 35 in N. half, S 2 in S. half of brass cap, dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

I destroy all traces of the old  $\frac{1}{4}$  sec.cor.

73.30 The old cor. of secs. 1-2-35 and 36, bears N. 1.30 chs. dist.

80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for re-established cor. of secs. 1-2-35 and 36, marked on brass cap T 34 S S 35 in NW.,

R 18 W S 36 in NE.,

R 18 W S 1 in SE., and

T 35 S S 2 in SW. quadrant, dig pits, 18x18x12 ins. in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

I destroy all traces of the old sec.cor.

Land, level.

Soil, loam, 1st. rate.

## RE-SURVEY OF THE NORTH BOUNDARY OF T.35 S., R.18 W.

CHAINS

No timber.

Undergrowth, sage brush and bunch grass.

S. 29° 48' N., bet. secn. 1 and 36.

Over level land, through sparse undergrowth.

33.41 The old  $\pm$  sec.cor.beam N.1.23 chs.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established  $\pm$  sec.cor., marked  $\pm$  S. 36 on N.half, S. 1 on S.half, dig pitn, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

I destroy all traces of the old  $\pm$  sec.cor.40.00 The cor.of Tps.34 and 35 S., Rn.17 and 18 W.  
land, level.

Soil, loam, lat. rate.

No timber.

Undergrowth, sage brush and bunch grass.

June 18, 1900

## RE-SURVEY OF THE WEST BOUNDARY OF T.35 S., R.18 W.

June 19: At 7h.01m., a.m., l.m.t., I set off 37° 43' N., on lat.arc, 28° 27' N., on decil.arc, and determine a meridian with the solar at the re-established stan.cor. of Tps. 34 S., Rn.18 and 19 W., heretofore described.

Knowing from the resurvey of the N., S. and E. bdry. of this township that the west bdy. will not close within limits at the cor.of Tps.34 and 35 S., Rn.18 and 19 W., I resurvey the west bdy. as follows:

North, bet.secns. 31 and 36.

Descend over rolling land, through sparse undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established  $\pm$  sec.cor., marked on brass cap,  $\pm$  S. 36 on N.half and S. 31 on S.half, and raise a mound of stones, 2 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

RESURVEY OF THE WEST BOUNDARY OF T.35 S., R.18 W.

15

CHAINS	
	Pits impracticable.
	I destroy all traces of the old $\frac{1}{4}$ sec.cor. which bears N. $29^{\circ}30'W.$ , 1.78 chs.dist.
80.00	Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the ground for re-established cor.of secs.25-30-31 and 36, marked on brass capT35-S on N.half, R 19 W S 25 in NW., R 18 W S 30 in NE., S 31 in SE., and S 36 in SW.quadrant,dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft.dist., and raise a mound of earth, 4 ft.base, $12\frac{1}{2}$ ft.high,W.of cor.
	I destroy all traces of the old sec.cor. which bears N. $29^{\circ}40'W.$ , 1.74 chs.dist.
	Land, rolling.
	Soil, gravelly, 2nd.rate.
	No timber.
	Undergrowth, sage brush and bunch grass.
	North,betsecs.25 and 30.
	Over level land, through sparse undergrowth.
19.60	Begin abrupt ascent over rocky and mountainous land, bearing NE.and SW.
40.00	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for re-established $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S.36 on W.half, S 31 on E.half, and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
	No trace can be found of the old $\frac{1}{4}$ sec.cor.
42.30	Spur, projects E.
	Abrupt descent.
56.00	Enter hollow, 100 ft.deep, course E.
	Ascend along hollow, course S.
80.00	Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the

## RESURVEY OF THE WEST BOUNDARY OF T.35 S., R.18 W.

## CHAINS

ground, for re-established cor. of secs. 19-24-25 and 30, marked on brass cap, T 35 S on N.half,

R 19 W S 24 in NW.,

R 18 W S 19 in NE.,

S 30 in SE., and

S 25 in SW.quadrant, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W.of cor.

Pits impracticable.

No trace can be found of the old  $\frac{1}{4}$  sec.cor.

Land, level and mountainous.

Soil, rocky, on 60.40 chs., 3rd.and 4th.rate.

balance loam, 1st.rate.

No timber.

Mountainous land on 60.40 chs.

---

North, betsecs. 19 and 24.

Ascend over mountainous land along hollow, course S.

31.00 Leave hollow, course from NW.to S.

Begin abrupt ascent over rocky land.

40.00 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for re-established  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  S 24 on W.half, S 19 on E.half, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W.of cor.

Pits impracticable.

No trace can be found of the old  $\frac{1}{4}$  sec.cor.

80.00 Set an iron post, 3 ft.long, 3 ins.dia, in mound of stone and earth, for re-established cor.of secs. 13-18-19 and 24, marked on brass cap, T 35 S on N.half,

R 19 W S 13 in NW.,

R 18 W S 18 in NE.,

S 19 in SE.and

S 24 in SW.quadrant, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W.of cor.

Pits impracticable.

## RESURVEY OF THE WEST BOUNDARY OF T.35 S., R.18 W.

## CHAINS

On account of natural obstacles, it is impossible to set this post over 12 ins. in the ground.

No trace can be found of the old sec.cor.

Land, mountainous.

Soil, rocky, 3rd. and 4th. rate.

No timber.

Mountainous land on 80.00 chs.

June 19, At this cor. I set off  $23^{\circ}26'N.$ , on decl.arc, and at 0h.01m., p.m., l.m.t., observe the sun on the meridian the resulting lat. is  $37^{\circ}46'N.$

North, bet. secs. 13 and 18.

Ascend abruptly over rocky and mountainous land.

15.00 Rocky ridge, bears NW. and SE.

Abrupt descent.

28.00 Enter scattering cedar timber.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for re-established  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 13 on W.half, S 18 on E.half, from which

A cedar, 5 ins. diam., bears S. $31^{\circ}30'E.$ , 64 lks.dist.,  
marked  $\frac{1}{4}$  S 18 BT.

A cedar, 7 ins. diam., bears N. $49^{\circ}W.$ , 44 lks.dist.,  
marked  $\frac{1}{4}$  S 13 BT.

41.00 No trace can be found of the old  $\frac{1}{4}$  sec.cor.  
Foot of abrupt descent, bears E. and W.

Leave timber.

Descend along rolling and rocky east slope.

80.00 Set an iron post, 3 ft. long, 3 ins. dia., in mound of stone and earth, for re-established cor.of secs. 7-12-13 and 18, marked on brass cap, T 35 S on N half,

R 19 W S 12 in NW.,

R 18 W S 7 in NE.,

S 18 in SE., and

S 13 in SW.quadrant, and raise a mound  
of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

## RESURVEY OF THE WEST BOUNDARY OF T. 35 S., R. 18 W.

## CHAINS

Pits impracticable.

On account of natural obstacles it is impossible to set this post over 12 ins. in the ground.

No trace can be found of the old sec.cor.

Land, mountainous.

Soil, rocky, 3rd. and 4th. rate.

Timber, cedar.

Mountainous land on 80.00 chs.

North, bet. secs. 7 and 12.

Descend over rocky and mountainous land.

5.50 Hollow, 100 ft. deep, course E.

Abrupt ascent.

24.27 Ridge, bears NE. and SW.

Descend.

Enter scattering timber.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for re-established  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$ , S 12 on W half, S 7 on E half, from which

A cedar, 12 ins. diam., bears S.32°E., 150 lks. dist., marked  $\frac{1}{4}$  S 7 BT.

No other trees within limits and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

No trace can be found of the old  $\frac{1}{4}$  sec.cor.

59.00 Foot of mountainous land, bears NE. and SW.

Descend over rolling land.

80.00 Set an iron post, 3 ft. long, 3 ins. dia., in mound of stone and earth, for re-established cor. of secs. 1-6-7 and 12, marked on brass cap

T 35 S on N. half,

R 19 W S 1 in NW.,

R 18 W S 6 in NE.,

S 7 in SE. and

S 12 in SW. quadrant, and raise a mound of

## RESURVEY OF THE WEST BOUNDARY OF T.35 S., R.18 W.

## CHAINS

stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

On account of natural obstacles it is impossible to set this post over 12 ins. in the ground.

The old cor. of secs. 1-6-7 and 12, bears N.81°25'W., 7.76 chs. dist.; I destroy all traces of this cor.

Land, mountainous and rolling.

Soil, rocky, 3rd. and 4th. rate.

Timber, scattering cedar and pinon.

Mountainous land on 59.00 chs.

North, bet. secs. 1 and 6.

Descend over rolling land, through sparse undergrowth.

25.90 Enter hollow, 30 ft. deep, course E.

26.00 Wash, 50 lks. wide, 4 ft. deep, course E.

29.15 Road from Newcastle, St. George and Enterprise to Modena, bears NW. and SE.

30.00 Telephone line bears NW. and SE.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S. 1 on W. half, S 6 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

I destroy all traces of the old  $\frac{1}{4}$  sec. cor., which bears N.81°W., 7.70 chs. dist.

40.25 Leave hollow, course E.

Ascend over rolling land.

81.46 Intersect S.bdy. of T.34 S., R.18 W., 7.39 chs., S.89°48'E., from the cor. of Tps. 34 and 35 S., Rs. 18 and 19 W., heretofore described.

Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground for closing cor. for Tps. 35 S., Rs. 18 and 19 W., marked on brass cap CCT, 34 S R 19 W S 36 R 18 W S 31 on N. half, S 1 R 19 W S 6 R 18 W T 35 S on S. half, and raise a

## RESURVEY OF THE WEST BOUNDARY OF T.35 S., R.18 W.

## CHAINS

mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, S. of cor.

Pits impracticable.

I destroy all marks on the cor. of Tps. 34 and 35 S., Rs. 18 and 19 W., that pertain to T.35 S.

Land, rolling and level.

Soil, rocky, 3rd. rate: sandy loam, 1st. rate.

No timber.

Undergrowth, sage brush, shad scale and bunch grass.

June 19, 1909

## BOUNDARIES OF T.35 S., R.18 W.

Latitudes, departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes N.	Departures E.	W.
-----------------	--------------	----------	--------------	---------------	----

			Chs.	Chs.	Chs.	Chs.
7th Stan. Par. S. West,		480.00				480.00
West Bdy.	North	481.46	481.46			
North Bdy.	S. 89° 48' E.	479.93		1.67	479.93	
3rd Aux. G. Mer.	South	480.00		480.00		
Convergency					0.56	
<b>Totals</b>			<b>481.46</b>	<b>481.67</b>	<b>480.49</b>	<b>480.00</b>
					481.46	480.00

Error in lat. and dep.      0.21    0.49

For General description see Subdivisions of T.35 S., R.18 W.

*Frank T. Rohr*  
U.S. Deputy Surveyor

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by .....  
 ..... United States Deputy Surveyor, to assist in running, measuring, and  
 marking the lines and corners described in the foregoing field notes of the survey of .....  
 showing the respective capacities in which they acted:

For list of names and final oath of assistants see book "Z," <sup>14</sup> Chainman.  
 T. 34 S., R. 12 W. ...., Chainman.  
 ...., Moundman.  
 ...., Moundman.  
 ...., Axman.  
 ...., Axman.  
 ...., Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....  
 ..... United States Deputy Surveyor, in surveying all  
 those parts or portions of the .....  
 ..... of the .....  
 ..... meridian, ..... of ..... which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
 corner monuments established, according to the instructions furnished by the United States Surveyor

General for .....

....., Chainman.  
 ....., Chainman.  
 ....., Moundman.  
 ....., Moundman.  
 ....., Axman.  
 ....., Axman.  
 ....., Flagman.

Subscribed and sworn to before me this ..... }  
 day of ..... , 190 }  
 }

## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I solemnly swear that, in pursuance of a contract received from United States Surveyor General for ..... bearing date of the ..... day of ..... 190 ..... I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ..... the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of ..... for a sum of \$100.00, being book No. 2, T. 34 S., R. 12 E., of the ..... meridian, in the ..... which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said ..... and sworn to before me }  
this ..... day of ..... 190 }  
ccccccc  
O SEAL O  
ccccccc

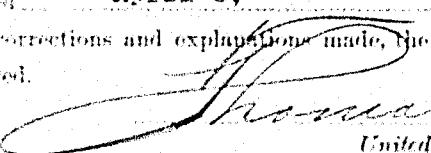
## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1910

The foregoing field notes of the survey of the North and West Boundaries of Township No. 75 South, Range No. 18 West of the Salt Lake Base and Meridian, Utah,

executed by Frank T. Roberts and Contract No. 312, dated April 5, 1909, having been correctly examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

  
Frank T. Roberts  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-355

# FIELD NOTES

771. J. 03.

OF THE SURVEY OF THE

S U B D I V I S I O N S

of

TOWNSHIP NO 35 SOUTH, RANGE NO. 18 WEST,

C. 32

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,

Under his Contract No. 313, dated April 5, 1909

Survey commenced June 20., 1909

Survey completed June 26., 1909

c-101

Subs 60-04-31

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C. 4

**NAMES AND DUTIES OF ASSISTANTS.**

Sterling Wright,.....Chairman.....

Claude L. Heist,....."

Frastus B. Valley,.....Moundman.....

George B. McConnell,....."

Joseph H. Foster,.....Axman.....

Earl V. Woolley,....."

Rodney B. Shelley.....Flagman.....

For preliminary information see book "HUTCHINSON'S RAILROADS".

## BOOK A-355

## INDEX DIAGRAM.

*Township 35 South, Range 18 West,*

6	40	5	28	4	21	3	15	2	8	1
39		38		28		21		14		7
7	37	8	27	9	20	10	13	11	7	12
37		36		27		20		13		6
18	35	17	26	16	19	16	12	14	5	13
34		34		25		19		12		5
19	33	20	25	21	18	22	11	23	4	24
32		32		24		17		10		4
30	31	29	23	28	17	27	10	26	3	26
30		30		23		16		9		2
81	29	82	22	83	15	84	8	85	2	86

*Meanders Page*

## PRELIMINARY OATHS OF ASSISTANTS.

WE, \_\_\_\_\_ and \_\_\_\_\_

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

\_\_\_\_\_, Chainman.

\_\_\_\_\_, Chainman.

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190      }



WE, \_\_\_\_\_ and \_\_\_\_\_

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Moundman.

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190      }



WE, \_\_\_\_\_ and \_\_\_\_\_

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

\_\_\_\_\_, Axman.

\_\_\_\_\_, Axman.

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190      }



I, \_\_\_\_\_, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

\_\_\_\_\_, Flagman.

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190      }



## SUBDIVISIONS OF T.35 S., R.18 W.

## CHAINS

Survey commenced, June 20, 1909 and executed with the instrument described in book "A", of this survey.

I examine the adjustments of the transit and correct the level and collimation errors, then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the re-established stan.cor. of secs. 35 and 36, heretofore described on the 7th Stan.Par.South, in approximate latitude  $37^{\circ}43'N.$ , longitude  $113^{\circ}47'W.$ , I set off  $37^{\circ}43'N.$ , on lat.arc,  $23^{\circ}27'N.$ , on decl.arc, and at 4h.01m. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

June 20, 1909

June 21: At 1h.35m., a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg, driven in the ground, 5 chs. N. of my station.

At 6 a.m., I lay off the azimuth of Polaris,  $1^{\circ}29'$  to the west and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.2 ins. east of the mark determined by the solar.

At 8h.01m., a.m., l.m.t., I set off  $37^{\circ}43'N.$ , on lat.arc,  $23^{\circ}28'N.$ , on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station: this mark falls 0.2 ins. east of the meridian established by the Polaris observation. The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0'11''$  west and east of the meridian established by the Polaris

## SUBDIVISIONS OF T.35 S., R.18 W.

## CHAINS

observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.30m., a.m. is N.16°10'W., the angle thus determined gives the mag.decl.16°10'E.

From the stan.sec.cor. already described, I run

N.0°01'W., bet.secs.35 and 36.

Over level land, through sparse undergrowth.

40.00 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$ S35 on W.half, S36, on E.half dig pits, 18x18x12 ins., N.and S.of post, 3 ft.dist., and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high, W.of cor.

43.00 Road, from St.George to Modena, bears NW.and SE.

80.00 Set an iron post, 3 ft.long, 2 ins.dia., 24 ins.in the ground for cor.of secs.25-26-35 and 36, marked on brass cap

T 35 S S 26 in NW.,

R 18 W S 25 in NE.,

S 36 in SE., and

S 35 in SW.quadrant, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft.dist., and raise a mound of earth, 4 ft.base, 2 ft. high, W.of cor.

Land, level.

Soil, sandy loam, 1st.rate.

No timber.

Undergrowth, sage brush and shad scale.

East, on a random line, bet.secs.25 and 36.

40.00 Set temp. $\frac{1}{4}$  sec.cor.

80.14 Intersect 3rd. Auxiliary Guide Meridian, 3 lks.N. of the re-established cor.of secs.25-30-31 and 36, heretofore described.

Thence I run

N.89°59'W., on a true line,

Bet.secs.25 and 36.

## SUBDIVISIONS OF T.35 S., R.18 W.

CHAINS

Over level land, through sparse undergrowth.

40.07 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap  $\frac{1}{4}S25$  on N. half, S 36, on S. half dig pits, 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

80.14 The cor. of secs. 25-26-35 and 36.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and shad scale.

N. 0° 01' W., bet. secs. 25 and 26.

Over level land, through sparse undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}S26$  on W. half, S 25 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 23-24-25 and 26, marked on brass cap  
 T 35 S S 23 in NW.,  
 R 18 W S 24 in NE.,  
 S 25 in SE. and  
 S 26 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and shad scale.

## SUBDIVISIONS OF T.35 S., R.18 W.

CHAINS	S.89°59'E., on a random line, bet. secs. 24 and 25.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.16	Intersect 3rd Auxiliary Guide Meridian, 5 lks.S. of the re-established cor. of secs. 19-24-25 and 30, heretofore described. Thence I run
	S.89°59'W., on a true line, Bet. secs. 24 and 25.
	Over level land, through sparse undergrowth.
40.08	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap. $\frac{1}{4}$ S 24 on N.half, S 25 on S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
80.16	The cor. of secs. 23-24-25 and 26. Land, level. Soil, loam, 1st. rate. No timber. Undergrowth, sage brush and shad scale.
	N.0°01'W., bet. secs. 23 and 24.
	Over level land, through sparse undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 23 on W.half, S 24 on E.half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 13-14-23 and 24, marked on brass cap, T 35 S S 14 in NW., R 18 W S 13 in NE., S 24 in SE., and S 23 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

## SUBDIVISIONS OF T.35 S., R.18 W.

CHAINS	
	Land, level.
	Soil, loam, 1st. rate.
	No timber.
	Undergrowth, sage brush and shad scale.
	June 21: At this cor. I set off $23^{\circ}27'N.$ , on decl. arc, and at $0h.01m.$ , p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $37^{\circ}46'N.$
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	N. $89^{\circ}59'E.$ , on a random line, bet. secs. 13 and 24.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.18	Intersect 3rd. Auxiliary Guide Meridian, 5 lks.N. of the re-established cor. of secs. 13-18-19 and 24, heretofore described.
	Thence I run
	N. $89^{\circ}59'W.$ , on a true line,
	Bet. secs. 13 and 24.
	Over level land, through sparse undergrowth.
40.09	Set an iron post, 3 ft. long, 1 in.dia., 26 ins.in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 13 on N.half, S 24 on S.half, dig pits, $18 \times 18 \times 12$ ins., E.and W.of post, 3 ft.dist., and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft. high, N.of cor.
80.18	The cor.of secs. 13-14-23 and 24.
	Land, level.
	Soil, loam, 1st. rate.
	No timber.
	Undergrowth, sage brush and shad scale.
	<hr/>
	N. $0^{\circ}01'W.$ , bet. secs. 13 and 14.
	Over level land, through dense undergrowth.
38.75	Road from Newcastle to Modena, bears NW.and SE.
40.00	Set an iron post, 3 ft. long, 1 in.dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 14 on W.half,

## SUBDIVISIONS OF T.35 S., R.18 W.

## CHAINS

- S 13 on E.half,dig pits,18x18x12 ins.,N.and S.of post,  
3 ft.dist.,and raise a mound of earth,3 $\frac{1}{2}$  ft.base,1 $\frac{1}{2}$  ft.  
high, W.of cor.
- 80.00 Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the  
ground,for cor.of secs.11-12-13 and 14,marked on brass  
cap,T 35 S S 11 in NW.,  
R 18 W S 12 in NE.,  
S 13 in SE.,and  
S 14 in SW.quadrant, dig pits,18x18x12 ins.,in each sec.,  
5 $\frac{1}{2}$  ft.dist.,and raise a mound of earth,4 ft.base,2 ft.  
high,W.of cor.  
Land,level.  
Soil,loam,1st.rate.  
No timber.  
Undergrowth,sage brush and shad scale.
- S.89°59'E.on a random line,betsecs.12 and 13.
- 40.00 Set temp. $\frac{1}{4}$  sec.cor.
- 80.22 Entersect 3rd.Auxiliary Guide Meridian, at the re-established cor.of secs.7-12-13 and 18,heretofore described.  
Thence I run  
N.89°59'W.,on a true line,  
Betsecs. 12 and 13.  
Over level land,through sparse undergrowth.  
Road from Newcastle to Modena,bears NW.and SE.  
Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,  
for  $\frac{1}{4}$  sec.cor.,marked on brass cap,  $\frac{1}{4}$  S 12 on N.half,S 13  
on S.half, dig pits,18x18x12 ins.,E.and W.of post,3 ft.  
dist.,and raise a mound of earth,3 $\frac{1}{2}$  ft.base,1 $\frac{1}{2}$  ft.high,  
N.of cor.  
The cor.of secs.11-12-13 and 14.  
Land,level.  
Soil,loam,1st.rate.  
No timber.  
Undergrowth,sage brush and shad scale.

## SUBDIVISIONS OF T.35 S., R.18 W.

CHAINS	
	N.0°01'W., bet. secs. 11 and 12.
	Over level land, through sparse undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 11 on W. half, S 12 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
43.75	Road from Newcastle to Modena, bears NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 1-2-11 and 12, marked on brass cap T 35 S S 2 in NW., R 18 W S 1 in NE., S 12 in SE., and S 11 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, level.
	Soil, loam, 1st. rate.
	No timber.
	Undergrowth, sage brush and shad scale.
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	S.89°59'E., on a random line, bet. secs. 1 and 12.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.26	Intersect 3rd. Auxiliary Guide Meridian, 16 lks. N. of the re-established cor. of secs. 1-6-7 and 12, heretofore described.
	Thence I run
	N.89°52'W., on a true line,
	Bet. secs. 1 and 12.
	Over level land, through sparse undergrowth.
40.13	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 1 on N. half, S 12 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft.

## SUBDIVISIONS OF T. 35 S., R. 18 W.

## CHAINS

dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,

N. of cor.

80.26 The cor. of secs. 1-2-11 and 12.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and shad scale.

N. 0°01'W., on a random line, bet. secs. 1 and 2.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.02 Intersect N. bdy. of Tp., 35 lks. W. of the re-established cor. of secs. 1-2-35 and 36, heretofore described.

Thence I run

S. 0°14'W., on a true line,

Bet. secs. 1 and 2.

Over level land, through sparse undergrowth.

40.02 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 2 on W. half, S 1 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.02 The cor. of secs. 1-2-11 and 12.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and shad scale.

June 21: 1909

June 22: At 7h. 02m., a.m., l.m.t., I set off  $37^{\circ}43'N.$ , on lat. arc,  $23^{\circ}28'N.$ , on decl. arc, and determine a meridian with the solar at the re-established stan.cor. of secs. 34 and 35, heretofore described on the 7th. Stan.Par. South. Thence I run .

## SUBDIVISIONS OF T.35 S., R.18 W.

CHAINS

N.0°01'W., bet. secs. 34 and 35.

Over level land, through sparse undergrowth.

40.00

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 34 on W. half, S 35 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

80.00

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 26-27-34 and 35, marked on brass cap T 35 S S 27 in NW., R 18 W S 26 in NE., S 35 in SE. and S 34 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and shad scale.

East, on a random line, bet. secs. 26 and 35.

40.00

Set temp.  $\frac{1}{4}$  sec. cor.

80.10

Intersect N. and S. line, 5 lks. S. of the cor. of secs. 25-26-35 and 36.

Thence I run

S.89°58'W., on a true line,

Bet. secs. 26 and 35.

Over level land, through sparse undergrowth.

40.05

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 26 on N. half, S 35 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

42.15

Road from St. George to Modena, bears NW. and SE.

## SUBDIVISIONS OF T. 35 S., R. 18 W

CHAINS	
80.10	The cor. of secs. 26-27-34 and 35.  Land, level.  Soil, loam, 1st. rate.  No timber.  Undergrowth, sage brush and shad scale.  N. 0° 01' W., bet. secs. 26 and 27.
31.00	Over level land, through sparse undergrowth.
40.00	Road, from St. George to Modena, bears NW. and SE. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 27 on W. half, S 26 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 22-23-26 and 27, marked on brass cap T 35 S S 22 in NW., R 18 W S 23 in NE., S 26 in SE. and S 27 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  Land, level.  Soil, loam, 1st. rate.  No timber.  Undergrowth, sage brush and shad scale.
40.00	N. 89° 58' E., on a random line, bet. secs. 23 and 26.
80.08	Set temp. $\frac{1}{4}$ sec.cor. Intersect N. and S. line, 7 lks. N. of the cor. of secs. 23-24-25 and 26. Thence I run N. 89° 59' W., on a true line, Bet. secs. 23 and 26.  Over level land, through sparse undergrowth.

## SUBDIVISIONS OF T.35 S., R.18 W.

## CHAINS

40.04 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}^{\circ}$  S 23 on N.half, S 26 on S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N.of cor.

80.08 The cor.of secs. 22-23-26 and 27.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and shad scale.

N:0°01'W., betsecs. 22 and 23.

Over level land, through sparse undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}^{\circ}$  S 22 on W.half, S 23 on E.half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W.of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor.of secs. 14-15-22 and 23, marked on brass cap T 35 S S 15 in NW.,

R 18 W S 14 in NE.,

S 23 in SE. and

S 22 in SW.quadrant, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W.of cor.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and shad scale.

June 22: At this cor.I set off  $23^{\circ}27'N.$ , on decl.arc, and at Oh. 02m., p.m., 1.m.t., observe the sun on the meridian, the resulting lat.is  $37^{\circ}46'N.$

## SUBDIVISIONS OF T. 35 S., R. 18 W.

CHAINS	
	S. 89° 59' E., on a random line, bet. secs. 14 and 23.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.12	Intersect N. and S. line, 3 lks. S. of the cor. of secs. 13-14-23 and 24. Thence I run West, on a true line, Bet. secs. 14 and 23. Over level land, through sparse undergrowth.
40.06	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 14 on N. half, S 23 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
80.12	The cor. of secs. 14-15-22 and 23. Land, level. Soil, loam, 1st. rate. No timber. Undergrowth, sage brush and shad scale.
	N. 0° 0' W., bet. secs. 14 and 15. Over level land, through sparse undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 15 on W. half, S 14 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
58.10	Road, from Newcastle to Modena, bears NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 10-11-14 and 15, marked on brass cap T 35 S S 10 in NW., R 18 W S 11 in NE., S 14 in SE. and S 15 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft.

## SUBDIVISIONS OF T. 35 S., R. 18 W.

## CHAINS

high, W. of cor.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and shad scale.

East, on a random line, bet. secs. 11 and 14.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.14 Intersect N. and S. line, 3 lks. N. of the cor. of secs.  
11-12-13 and 14.

Thence I run

N. 89° 59' W., on a true line,

Bet. secs. 11 and 14.

Over level land, through sparse undergrowth.

40.07 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground,  
for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 11 on N. half,  
S 14 on S. half, dig pits, 18x18x12 ins., E. and W. of post,  
3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
high, N. of cor.

80.14 The cor. of secs. 10-11-14 and 15.

Land level.

Soil, loam., 1st. rate.

No timber.

Undergrowth, sage brush and shad scale.

N. 0° 01' W., bet. secs. 10 and 11.

Over level land, through sparse undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground,  
for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 10 on W. half,  
S 11 on E. half, dig pits, 18x18x12 ins., N. and S. of post,  
3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the

## SUBDIVISIONS OF T.35 S., R.18 W.

## CHAINS

ground, for cor. of secs. 2-3-10 and 11, marked on brass cap  
 T 35 S S 3 in NW.,  
 R 18 W S 2 in NE.,  
 S 11 in SE. and  
 S 10 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,  
 $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft.  
 high, W. of cor.  
 Land, level.  
 Soil, loam, 1st. rate.  
 No timber.  
 Undergrowth, sage brush and shad scale.

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S.  $89^{\circ}59' E.$ , on a random line, bet. secs. 2 and 11.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.12 Intersect N. and S. line, 5 lks. S. of the cor. of secs.  
 1-2-11 and 12.

Thence I run

S.  $89^{\circ}59' W.$ , on a true line,

Bet. secs. 2 and 11.

Over level land, through sparse undergrowth.

40.06 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground,  
 for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 2 on N. half,  
 S 11 on S. half, dig pits, 18x18x12 ins., E. and W. of post,  
 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
 high, N. of cor.

67.25 Road from Newcastle to Modena, bears NW. and SE.

80.12 The cor. of secs. 2-3-10 and 11.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and shad scale.

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## SUBDIVISIONS OF T. 35 S., R. 18 W.

## CHAINS

- N.0°01'W., on a random line, bet. secs. 2 and 3.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 80.20 Intersect N.bdy. of Tp., 33 lks.W. of the re-established cor. of secs. 2-3-34 and 35, heretofore described.  
Thence I run  
S.0°13'W., on a true line,  
Bet. secs. 2 and 3.  
Over level land, through sparse undergrowth.
- 40.20 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S. 3 on W. half, S 2 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 72.75 Road from Newcastle to Modena, bears NW. and SE.
- 80.20 The cor. of secs. 2-3-10 and 11.  
Land, level.  
Soil, loam, 1st. rate.  
No timber.  
Undergrowth, sage brush and shad scale.

June 22, 1909

June 23: At 7h.02m., a.m., l.m.t., I set off 37°43'N., on lat.arc, 23°28'N., on decl.arc, and determine a meridian with the solar at the re-established standard cor. of secs. 33 and 34, heretofore described on the 7th. Standard Parallel. South.

Thence I run

N.0°02'W., bet. secs. 33 and 34.

Gradual descent over nearly level land, through sparse undergrowth.

- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S. 33 on W. half, S 34 on E. half, dig pits, 18x18x12 ins., N. and S. of post,

## SUBDIVISIONS OF T. 35 S., R. 18 W.

## CHAINS

- 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 27-28-33 and 34, marked on brass cap  
 T 35 S S 28 in NW.,  
 R 18 W S 27 in NE.,  
 S 34 in SE. and  
 S 33 in SW. quadrant, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 Pits impracticable.  
 Land, sloping north.  
 Soil, loam, 1st. rate.  
 No timber.  
 Undergrowth, sage brush and shad scale.
- 
- East, on a random line, bet. secs. 27 and 34.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.08 Intersect N. and S. line, 3 lks. S. of the cor. of secs. 26-27-34 and 35.  
 Thence I run  
 S. 89° 59' W., on a true line,  
 Bet. secs. 27 and 34.  
 Over level land, through sparse undergrowth.
- 40.04 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S. 27 on N. half, S 34 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 67.45 Road from Enterprise to Modena, bears NW. and SE.
- 67.56 Telephone line, bears NW. and SE.
- 80.08 The cor. of secs. 27-28-33 and 34.  
 Land, level.      Soil, loam, 1st. rate.  
 No timber.  
 Undergrowth, sage brush and shad scale.

## SUBDIVISIONS OF T.35 S., R.18 W.

## CHAINS

- N.0°02'W., bet. secs. 27 and 28.  
Over level land, through sparse undergrowth.
- 16.80 Telephone line, bears NW. and SE.
- 17.00 Road, from Enterprise to Modena, bears NW. and SE.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 28 on W. half, S 27 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground; for cor. of secs. 21-22-27 and 28, marked on brass cap  
T 35 S S 21 in NW.,  
R 18 W S 22 in NE.,  
S 27 in SE. and  
S 28 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
- Land, level.
- Soil, loam, 1st. rate.
- No timber.
- Undergrowth, sage brush and shad scale.
- 
- N.89°59'W., on a random line, bet. secs. 22 and 27.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 80.14 Intersect N. and S. line, 9 lks. S. of the cor. of secs. 22-23-26 and 27.
- Thence I run
- S.89°55'W., on a true line,
- Bet. secs. 22 and 27.
- Over level land, through sparse undergrowth.
- 40.07 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground,  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 22 on N. half, S 27 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

## SUBDIVISIONS OF T.35 S., R.18 W.

## CHAINS

- 51.65 Road from St. George to Modena, bears NW. and SE.
- 80.14 The cor. of secs. 21-22-27 and 28.  
Land, level.  
Soil, loam, 1st. rate.  
No timber.  
Undergrowth, sage brush and shad scale.
- 
- N.0°02'W., bet. secs. 21 and 22.  
Over level land, through sparse undergrowth.
- 25.10 Road from St. George to Modena, bears NW. and SE.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 21 on W. half, S 22 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 15-16-21 and 22, marked on brass cap  
T 35 S S 16 in NW.,  
R 18 W S 15 in NE.,  
S 22 in SE. and  
S 21 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  
Land, level.  
Soil, loam, 1st. rate.  
No timber.  
Undergrowth, sage brush and shad scale.
- June 23: At this cor. I set off 23°27'N., on decl. arc, and at 0h.02m., p.m., 1.m.t., observe the sun on the meridian, the resulting lat. is 37°46'N.
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## SUBDIVISIONS OF T. 35. S., R. 18. W.

CHAINS	N. 89° 55' E., on a random line, bet. secs. 15 and 22.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect N. and S. line, at the cor. of secs. 14-15-22 and 23. Thence I run S. 89° 55' W., on a true line, Bet. secs. 15 and 22. Over level land, through sparse undergrowth.
40.04	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 15 on N. half, S 22 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
80.08	The cor. of secs. 15-16-21 and 22. Land, level. Soil, loam, 1st. rate. No timber. Undergrowth, sage brush and shad scale.
	N. 0° 02' W., bet. secs. 15 and 16. Over level land, through sparse undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 16 on W. half, S 15 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
74.40	Road, from Newcastle to Modena, bears NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 9-10-15 and 16, marked on brass cap, T 35 S S 9 in NW., R 18 W S 10 in NE., S 15 in SE. and S 16 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

## SUBDIVISIONS OF T. 35 S., R. 18 W.

	CHAINs	
		Land, level.
		Soil, loam, 1st. rate.
		No timber.
		Undergrowth, sage brush and shad scale.
		N. 89° 55' E., on a random line, bet. secs. 10 and 15.
40.00		Set temp. $\frac{1}{4}$ sec. cor.
80.02		Intersect N. and S. line, 3 lks. S. of the cor. of secs. 10-11-14 and 15.
		Thence I run
		S. 89° 54' W., on a true line,
		Bet. secs. 10 and 15.
		Over level sandy land, through sparse undergrowth.
40.01		Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 10 on N. half, S 15 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
80.02		The cor. of secs. 9-10-15 and 16.
		Land, level.
		Soil, loam, 1st. rate.
		No timber.
		Undergrowth, sage brush and shad scale.
		N. 0° 02' W., bet. secs. 9 and 10.
		Over level land, through sparse undergrowth.
40.00		Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 9 on W. half, S 10 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
80.00		Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 3-4-9 and 10, marked on brass cap T 35 S S 4 in NW.,

## SUBDIVISIONS OF T. 35 S., R. 18 W.

## CHAINS

R 18 W S 3 in NE.,  
 S 10 in SE. and  
 S 9 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,  
 $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft.  
 high, W. of cor.  
 Land, level.  
 Soil, loam, 1st. rate.  
 No timber.  
 Undergrowth, sage brush and shad scale.

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- N. 89° 54' E., on a random line, bet. secs. 3 and 10.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.92 Intersect N. and S. line, 5 lks. S. of the cor. of secs.  
2-3-10 and 11.  
Thence I run
- S. 89° 52' W., on a true line,  
Bet. secs. 3 and 10.  
Over level land, through sparse undergrowth.
- 39.96 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground,  
for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 3 on N. half,  
S 10 on S. half, dig pits, 18x18x12 ins., E. and W. of post,  
3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
high, N. of cor.
- 79.92 The cor. of secs. 3-4-9 and 10.  
Land, level.  
Soil, loam, 1st. rate.  
No timber.  
Undergrowth, sage brush and shad scale.
- 
- N. 0° 02' W., on a random line, bet. secs. 3 and 4.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.65 Intersect N. bdy. of Tp., 33 lks. W. of the re-established  
cor. of secs. 3-4-33 and 34, heretofore described.  
Thence I run

## SUBDIVISIONS OF T. 35 S., R. 18 W.

## CHAINS

S. 0° 12' W., on a true line,

Bet. secs. 3 and 4.

Over level land, through sparse undergrowth.

29.50 Road from Newcastle to Modena, bears NW. and SE.

40.65 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor. marked on brass cap,  $\frac{1}{4}$  S. 4 on W. half, S. 3 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

80.65 The cor. of secs. 3-4-9 and 10.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and shad scale.

June 23, 1909

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June 24: At 7h. 02m., a.m., l.m.t., I set off 37° 43' N., on lat. arc, 23° 27' N., on decl. arc, and determine a meridian with the solar at the re-established standard cor. of secs. 32 and 33, heretofore described on the 7th. Standard Parallel South,

Thence I run

N. 0° 03' W., bet. secs. 32 and 33.

Over level land, through sparse undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S. 32 on W. half, S. 33 on E. half, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 28-29-32 and 33, marked on brass cap T 35 S. S 29 in NW., R 18 W S 28 in NE.,

## SUBDIVISIONS OF T.35 S., R.18 W.

## CHAINS

S 33 in SE. and

S 32 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, granite debris, 2nd. rate.

No timber.

Undergrowth, sage brush and shad scale.

East, on a random line, bet. secs. 28 and 33.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.02 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 27-28-33 and 34.

Thence I run

S. 89° 57' W., on a true line,

Bet. secs. 28 and 33.

Over level land, through sparse undergrowth.

40.01 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 28 on N. half, S 33 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

80.02 The cor. of secs. 28-29-32 and 33.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and shad scale.

00-67  
N. 0° 03' W., bet. secs. 28 and 29.

Over level land, through sparse undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 29 on W. half, S 28 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft.

## SUBDIVISIONS OF T.35 S., R.18 W.

CHAINS	
	high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 20-21-28 and 29, marked on brass cap, T 35 S S 20 in NW., R 18 W S 21 in NE., S 28 in SE. and S 29 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, level.
	Soil, loam, 1st. rate.
	No timber.
	Undergrowth, sage brush and shad scale.
	N. 89° 57' E., on a random line, bet. secs. 21 and 28.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.78	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 21-22-27 and 28.
	Thence I run
	N. 89° 59' W., on a true line,
	Bet. secs. 21 and 28.
	Over level land, through sparse undergrowth.
39.89	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 21 on N. half, S 28 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
45.35	Road, from Enterprise to Modena, bears NW. and SE.
45.55	Telephone line, bears NW. and SE.
79.78	The cor. of secs. 20-21-28 and 29.
	Land, level.
	Soil, loam, 1st. rate.
	No timber.
	Undergrowth, sage brush.

## SUBDIVISIONS OF T.35 S., R.18 W.

CHAINS	N.0°03'W., bet. secs. 20 and 21. Over level land, through sparse undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 20 on W. half, S 21 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
48.00	Telephone line, bears NW. and SE.
48.18	Road from Enterprise to Modena, bears NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 16-17-20 and 21, marked on brass cap T 35 S S 17 in NW., R 18 W S 16 in NE., S 21 in SE. and S 20 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, loam, 1st. rate. No timber. Undergrowth, sage brush. June 24: At this cor. I set off 23°26'N., on decl. arc, and at 0h.02m., p.m., l.m.t., observe the sun on the meridian the resulting lat. is 37°46'N.
40.00	S.89°59'W., on a random line, bet. secs. 16 and 21. Set temp. $\frac{1}{4}$ sec. cor.
79.88	Intersect N. and S. line, 9 lks. S. of the cor. of secs. 15-16-21 and 22. Thence I run
	S.89°57'W., on a true line, Bet. secs. 16 and 21. Over rolling land, through sparse undergrowth.
39.94	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground

## SUBDIVISIONS OF T.35 S., R.18 W.

## CHAINS

for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 16 on N.half,  
S 21 on S.half, dig pits, 18x18x12 ins., E. and W. of post,  
3 ft.dist., and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.  
high, N.of cor.

60.25 Road, From St. George to Modena, bears NW. and SE.

79.88 The cor.of secs.16-17-20 and 21.

Land, rolling.

Soil, loam, 1st.rate.

No timber.

Undergrowth, sage brush.

N.0°03'W., betsecs.16 and 17.

Over level land, through sparse undergrowth.

17.95 Road from St. George to Modena, bears NW. and SE.

40.00 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground  
for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 17 on W.half,  
S 16 on E.half, dig pits, 18x18x12 ins., N. and S. of post,  
3 ft.dist., and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.  
high, W.of cor.

80.00 Set an iron post, 3 ft.long, 2 ins.dia., 24 ins.in the  
ground, for cor.of secs.8-9-16 and 17, marked on brass cap  
T 35 S S 8 in NW.,

R 18 W S 9 in NE.,

S 16 in SE.and

S 17 in SW.quadrant, dig pits, 18x18x12 ins., in each sec.,  
 $5\frac{1}{2}$  ft.dist., and raise a mound of earth, 4 ft.base, 2 ft.  
high, W.of cor.

Land, level.

Soil, loam, 1st.rate.

No timber.

Undergrowth, sage brush.

## SUBDIVISIONS OF T.35 S., R.18 W.

CHAINS	
	N.89°57'E., on a random line, bet. secs. 9 and 16.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.86	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 9-10-15 and 16. Thence I run S.89°55'W., on a true line, Bet. secs. 9 and 16. Over level land, through sparse undergrowth.
19.50	Road from Newcastle to Modena, bears NW. and SE.
39.93	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 9 on N. half, S 16 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
79.86	The cor. of secs. 8-9-16 and 17. Land, level. Soil, loam, 1st. rate. No timber. Undergrowth, sage brush.
	N.0°03'W., bet. secs. 8 and 9. Over rolling land, through sparse undergrowth.
15.25	Road, from Newcastle to Modena, bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 8 on W. half, S 9 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 4-5-8 and 9, marked on brass cap T 35 S 5 in NW., R 18 W S 4 in NE., S 9 in SE., and S.8 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,

## SUBDIVISIONS OF T.35 S., R.18 W.

## CHAINS

$5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high  
W. of cor.

Land, rolling.

Soil loam, 1st. rate.

No timber.

Undergrowth, sage brush.

N. $89^{\circ}55' E.$ , on a random line, bet. secs. 4 and 9.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.82 Intersect N. and S. line, 3 lks. N. of the cor. of secs.

3-4-9 and 10.

Thence I run

S. $89^{\circ}56' W.$ , on a true line,

Bet. secs. 4 and 9.

Over level land, through sparse undergrowth.

39.91 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground  
for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 4 on N. half, S 9  
on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft.  
dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
N. of cor.

79.82 The cor. of secs. 4-5-8 and 9.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush.

N. $0^{\circ}03' W.$ , on a random line, bet. secs. 4 and 5.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.95 Intersect N. bdy. of Tp., 30 lks. W. of the re-established cor.  
of secs. 4-5-32 and 33, heretofore described.

Thence I run

S. $0^{\circ}10' W.$ , on a true line,

Bet. secs. 4 and 5.

## SUBDIVISIONS OF T.35 S., R.18 W.

## CHAINS

Over level land, through sparse undergrowth.

40.95 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 5 on W.half, S 4 on E.half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.95 The cor.of secs. 4-5-8 and 9.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush.

June 24, 1909

A.

June 25: At 7h.02m., a.m., l.m.t., I set off  $37^{\circ}43'N.$ , on lat.arc,  $23^{\circ}26'N.$ , on decl.arc, and determine a meridian with the solar at the re-established standard cor.of secs. 31 and 32, heretofore described on the 7th. Standard Parallel South, meridians delineated.

Thence I run

N. $0^{\circ}03'W.$ , bet. secs. 31 and 32.

Descend over rolling land, through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 31 on W.half, S 32 on E.half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor.of secs. 29-30-31 and 32, marked on brass cap  
T 35 S S 30 in NW.,  
R 18 W S 29 in NE.,

S 32 in SE. and

S 31 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

## SUBDIVISIONS OF T.35 S., R.18 W.

CHAINS	
	Land, rolling.
	Soil, granite debris, 2nd. rate.
	No timber.
	Undergrowth sage brush.
	Dense undergrowth on 80.00 chs.
	East, on a random line, bet. secs. 29 and 32.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.98	Intersect N. and S. line, 16 lks. N. of the cor. of secs. 28-29-32 and 33.
	Thence I run N. 89° 53' W., on a true line, Bet. secs. 29 and 32.
	Over level land, through sparse undergrowth.
39.99	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 29 on N. half, S 32 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
79.98	The cor. of secs. 29-30-31 and 32.
	Land, level.
	Soil, loam, 1st. rate.
	No timber.
	Undergrowth, sage brush.
	West, on a random line, bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec.cor.,
79.94	Intersect W. bdy. of Tp., 18 lks. N. of the re-established cor. of secs. 25-30-31 and 36, heretofore described.
	Thence I run N. 89° 52' E., on a true line, Bet. secs. 30 and 31.
	Over level land, through sparse undergrowth.

## SUBDIVISIONS OF T. 35 S., R. 18 W.

## CHAINS

- 39.94 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 30 on N.half, S 31 on S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.
- 79.94 The cor.of secs. 29-30-31 and 32.  
Land, level.  
Soil, loam, 1st. rate.  
No timber.  
Undergrowth, sage brush.
- 
- N. 0° 03' W., bet. secs. 29 and 30.  
Over level land, through sparse undergrowth.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 30 on W.half, S 29 on E.half, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., in mound of stone and earth, for cor.of secs. 19-20-29 and 30, marked on brass cap, T 35 S S 19 in NW.,  
R 18 W S 20 in NE.,  
S 29 in SE. and  
S 30 in SW. quadrant, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
On account of natural obstacles it is impossible to set this post over 12 ins. in the ground.  
Land, level.  
Soil, loam and rocky, 2nd. rate.  
No timber.  
Undergrowth, sage brush.

## SUBDIVISIONS OF T. 35 S., R. 18 W.

## CHAINS

S. 89° 53' E., on a random line, bet. secs. 20 and 29.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.02 Intersect N. and S. line, 12 lks. S. of the cor. of secs.  
20-21-28 and 29.

Thence I run

N. 89° 58' W., on a true line,

Bet. secs. 20 and 29.

Over level land, through sparse undergrowth.

40.01 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground,  
for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{2}$  S. 20 on N. half,  
S. 29 on S. half, dig pits, 18x18x12 ins., E. and W. of post,  
3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft.  
high, N. of cor.

80.02 The cor. of secs. 19-20-29 and 30.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush.

June 25: At this cor. I set off 23° 25' N., on decl. arc, and  
at 0h. 02m., p.m., 1.m.t., observe the sun on the meridian,  
the resulting lat. is 37° 45' N.

S. 89° 52' W., on a random line, bet. secs. 19 and 30.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.12 Intersect W. bdy. of Tp., 5 lks. S. of the re-established cor.  
of secs. 19-24-25 and 30, heretofore described.

Thence I run

N. 89° 54' E., on a true line,

Bet. secs. 19 and 30.

Ascend over rocky and mountainous land, in hollow, course S.

2.25 Leave hollow, begin abrupt ascent.

18.50 Rocky spur, projects S.

Abrupt descent.

## SUBDIVISIONS OF T. 35 S., R. 18 W.

## CHAINS

- 33.50 Hollow, 300 ft. deep, course SE.  
Abrupt ascent.
- 40.12 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground  
for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 19 on N. half,  
S 30 on S. half, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$   
ft. high, N. of cor.  
Pits impracticable.
- 44.20 Ridge, bears NW. and SE.  
Abrupt descent.
- 65.00 Foot of abrupt descent, bears N. and S.  
Gradual descent through sparse undergrowth.
- 80.12 The cor. of secs. 19-20-29 and 30.  
Land, mountainous and rolling.  
Soil, rocky, 3rd. and 4th. rate.  
No timber.  
Undergrowth, sage brush.  
Mountainous land on 65.00 chs.

---

N. 0° 03' W., bet. secs. 19 and 20.

Over level land, through sparse undergrowth.

- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground  
for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 19 on W. half,  
S 20 on E. half, dig pits, 18x18x12 ins., N. and S. of post,  
3 ft. dist., and raise a mound of earth,  $1\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
high, W. of cor.

- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground  
for cor. of secs. 17-18-19 and 20, marked on brass cap  
T 35 S S 18 in NW.,  
R 18 W S 17 in NE.,  
S 20 in SE. and  
S 19 in SW. quadrant, and raise a mound of stone, 2 ft. base,  
 $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
Land, level.  
Soil, loam, 1st. rate.

## SUBDIVISIONS OF T.35 S., R.18 W.

CHAINS	No timber.  Undergrowth, sage brush.
	S.89°58'W., on a random line, bet. secs. 17 and 20.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.98	Intersect N. and S. line; 5 lks.S. of the cor. of secs. 16-17-20 and 21.  Thence I run  West, on a true line,  Bet. secs. 17 and 20.  Gradual ascent over rolling land, through sparse undergrowth.
23.00	Road from Enterprise to Modena, bears NW. and SE.
23.20	Telephone line, bears NW. and SE.
39.99	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 17 on N. half, S 20 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
79.98	The cor. of secs. 17-18-19 and 20.  Land, rolling.  Soil, loam, 1st. rate.  No timber.  Undergrowth, sage brush.
	June 25, 1909.
	June 26: At 7h.02m., a.m., l.m.t., I set off 37°46'N., on lat.arc, 23°24'N., on decl.arc, and determine a meridian with the solar at the cor. of secs. 17-18-19 and 20.  Thence I run  S.89°54'W., on a random line, bet. secs. 18 and 19.  40.00 Set temp. $\frac{1}{4}$ sec.cor.  80.16 Intersect W. bdy. of Tp., 9 lks.S. of the re-established cor. of secs. 13-18-19 and 24, heretofore described.  Thence I run N.89°58'E., on a true line, bet. secs. 18 and 19.

## SUBDIVISIONS OF T. 35 S., R. 18 W.

## CHAINS

Ascend abruptly over rocky and mountainous land.

32.00 Ridge, bears N. and S.

Abrupt descent.

40.16 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 18 on N. half, S 19 on S. half, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable.

68.00 Foot of abrupt descent, bears N. and S.

Gradual descent over rolling land.

80.16 The cor. of secs. 17-18-19 and 20.

Land, mountainous and rolling.

Soil, rocky, 3rd. and 4th. rate.

No timber.

Mountainous land on 68.00 chs.

N. 0° 03' W., bet. secs. 17 and 18.

Gradual ascent over rocky land, through sparse undergrowth.

26.00 Begin abrupt ascent, bears NE. and SW.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 18 on W. half, S 17 on E. half, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

42.25 Rocky spur, projects NE. 250 ft. high.

Abrupt descent.

55.00 Foot of abrupt descent, bears NE. and SW.

Descend over rolling land.

79.10 Telephone line, bears NW. and SE.

79.30 Road from Enterprise to Modena, bears NW. and SE.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 7-8-17 and 18, marked on brass cap, T 35 S S 7 in NW.,

## SUBDIVISIONS OF T. 35 S., R. 18 W.

## CHAINS

- R 18 W S 8 in NE.,  
S 17 in SE. and  
S 18 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,  
 $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft.  
high, W. of cor.  
Land, rolling and mountainous.  
Soil, rocky, 3rd. and 4th. rate.  
No timber.  
Undergrowth, sage brush.  
Mountainous land on 29.00 chs.
- 
- East, on a random line, bet. secs. 8 and 17.  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
20.00 Intersect N. and S. line, 3 lks. S. of the cor. of secs.  
8-9-16 and 17.  
Thence I run  
S. 89° 59' W., on a true line,  
Bet. secs. 8 and 17.  
Gradual ascent through sparse undergrowth.  
40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground  
for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 8 on N. half,  
S 17 on S. half, dig pits, 18x18x12 ins., E. and W. of post,  
3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft.  
high, N. of cor.  
72.75 Road from St. George to Modena, bears NW. and SE.  
20.00 The cor. of secs. 7-8-17 and 18.  
Land, level.  
Soil, loam, int. rate.  
No timber.  
Undergrowth, sage brush.

## SUBDIVISIONS OF T.35 S., R.18 W.

## CHAINS

- S.  $89^{\circ}58'W.$ , on a random line, bet. secs. 7 and 18.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.12 Intersect W.bdy. of Tp., 9 lks. S. of the re-established cor. of secs. 7-12-13 and 18, heretofore described.  
 Thence I run  
 S.  $89^{\circ}58'E.$ , on a true line,  
 Bet. secs. 7 and 18.  
 Gradual descent through sparse undergrowth.  
 40.12 Set an iron post, 3 ft. long 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 7 on N.half, S 18 on S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
 79.60 Telephone line, bears NW. and SE.  
 79.70 Road from Enterprise to Modena, bears NW. and SE.  
 80.12 The cor. of secs. 7-8-17 and 18.  
 Land, sloping east.  
 Soil, loam, 1st. rate.  
 No timber.  
 Undergrowth, sage brush.  
 June 26: At this cor. I set off  $23^{\circ}23'N.$ , on decl. arc, and at 0h.02m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $37^{\circ}47'N.$
- 
- N.  $0^{\circ}03'W.$ , bet. secs. 7 and 8.  
 Gradual descent through sparse undergrowth.  
 6.00 Road from St. George to Modena, bears NW. and SE.  
 37.06 Road from Newcastle to Modena, bears NW. and SE.  
 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 7 on W.half, S 8 on E.half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 57.50 Enter bottom of wide hollow, 10 ft. deep, course E.

## SUBDIVISIONS OF T.35 S., R.18 W.

## CHAINS

Over level land.

- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 5-6-7 and 8, marked on brass cap  
T 35 S S 6 in NW.,  
R 18 W S 5 in NE.,  
S 8 in SE., and  
S 7 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,  
5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft.  
high, W. of cor.  
Land, rolling and level.  
Soil, loam, 1st. rate.  
No timber.  
Undergrowth, sage brush.

N. 89° 59' E., on a random line, bet. secs. 5 and 8.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.02 Intersect N. and S. line, 3 lks. N. of the cor. of secs. 4-5-  
R and 9.  
Thence I run  
West, on a true line,  
Bet. secs. 5 and 8.  
Over level land, through sparse undergrowth.  
40.01 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground  
for  $\frac{1}{4}$  sec. cor., marked on brass cap, S 5 on N. half,  
S 8 on S. half, dig pits, 18x18x12 ins., E. and W. of post,  
3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft.  
high, N. of cor.  
62.50 Begin ascent, bears NE. and SW.  
65.00 Top of low spur, projects S.  
Descend.  
67.25 Foot of descent.  
North end of Thorley Dam, 6 ft. high, 8 ft. wide, extending  
south 21.00 chs.  
There is no water in the reservoir behind the dam at time  
of survey.

## SUBDIVISIONS OF T.35 S., R.18 W.

## CHAINS

- Ascend over level land in hollow, course SE.  
Wash, 15 lks. wide, 10 ft. deep, course SE.  
The cor. of secs. 5-6-7 and 8.
- Land, level and rolling.
- Soil, loam, 1st. rate.
- No timber.
- Undergrowth, sage brush.
- 
- N. 89° 58' W., on a random line, bet. secs. 6 and 7.
- Set temp.  $\frac{1}{4}$  sec. cor.
- Intersect W. bdy. of Tp., 9 lks. S. of the re-established cor. of secs. 1-6-7 and 12, heretofore described.
- Thence I run
- S. 89° 54' E., on a true line,  
Bet. secs. 6 and 7.
- Descend over rolling land, through sparse undergrowth.
- Hollow, 25 ft. deep, course N.
- Ascend.
- Road from Newcastle, St. George and Enterprise to Modena, bears NW. and SE.
- Telephone line, bears NW. and SE.
- Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 6 on N. half, S 7 on S. half, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- Pits impracticable.
- Begin abrupt ascent, bears. NE. and SW.
- Rocky spur, projects N. from knoll, 2.00 chs. S. of line.
- Abrupt descent.
- Foot of abrupt descent, bears NW. and SE.
- Over level land, in bottom of hollow, course SE.
- The cor. of secs. 5-6-7 and 8.
- Land, rolling, mountainous and level.
- Soil, rocky, 3rd. rate on 66.90 chs.
- balance, loam, 1st. rate.

## SUBDIVISIONS OF T. 35 S., R. 18 W.

## CHAINS

No timber.

Undergrowth, sage brush.

Mountainous land on 12.90 chs.

N. 0° 03' W., on a random line, bet. secs. 5 and 6.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

81.24 Intersect N. bdy. of Tp., 28 lks. W. of the re-established cor. of secs. 5-6-31 and 32, heretofore described.

Thence I run

S. 0° 09' W., on a true line,

Bet. secs. 5 and 6.

Gradual descent over rolling land, through sparse undergrowth.

41.24 Set an iron post, 3 ft. long, 1" n. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 6 on W. half, S 5 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

60.00 Enter level land, bears NW. and SE. in bottom of hollow, 10 ft. deep, course SE.

75.24 Wash, 15 lks. wide, 5 ft. deep, course SE.

81.24 The cor. of secs. 5-6-7 and 8.

Land, rolling and level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush.

June, 26, 1909.

## GENERAL DESCRIPTION.

This township is situated in Escalante Valley, and is level or gently rolling throughout, with the exception of a part of secs. 17, 18, 19 and 30, which is rocky and mountainous.

## GENERAL DESCRIPTION OF T.35 S., R.18 W.

## CHAINS

The soil of that portion which falls in the valley is generally a rich, deep, black loam, covered with a growth of desert brush and grasses and is capable of producing crops with irrigation.

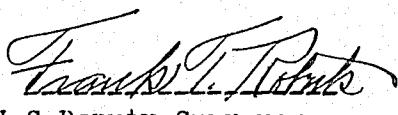
A scattering growth of cedar and pinon timber is found on the mountainous portion of the township.

There is no surface water found in this township.

The Thorley dam in sec.8 is built to catch the water in the wash which drains T.35 S.R.19 W., during storms to irrigate claims held by Thomas Thorley in the S. $\frac{1}{2}$  of sec.6, Jane R.Thorley in the S $\frac{1}{2}$ SW $\frac{1}{4}$ , S $\frac{1}{2}$ SE. $\frac{1}{4}$  of sec.5, N $\frac{1}{2}$ NW. $\frac{1}{4}$  and N $\frac{1}{2}$ NE. $\frac{1}{4}$  sec.8, and Ann A.Thorley in S $\frac{1}{2}$ SE $\frac{1}{4}$ , S $\frac{1}{2}$ SW. $\frac{1}{4}$ . Sec.4. N. $\frac{1}{2}$  NE. $\frac{1}{4}$  and N $\frac{1}{2}$  NW. $\frac{1}{4}$  of sec.9.

These are the only claims located in this township, there is no land under cultivation and there are no residences upon the land; the improvements consist of the reservoir described above value \$400.00.

There are no indications of mineral, oil springs, oil wells or seepages found in this township.



U.S. Deputy Surveyor.

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Page

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by \_\_\_\_\_  
 \_\_\_\_\_, United States Deputy Surveyor, to assist in running, measuring, and  
 marking the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_  
 showing the respective capacities in which they acted:

or list of names and final oath of assistants see book "Z" <sup>15</sup>, Chainman.  
 T. S. S., R. 12 W. \_\_\_\_\_, Chainman.  
 \_\_\_\_\_, Moundman.  
 \_\_\_\_\_, Moundman.  
 \_\_\_\_\_, Axman.  
 \_\_\_\_\_, Axman.  
 \_\_\_\_\_, Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted \_\_\_\_\_  
 \_\_\_\_\_, United States Deputy Surveyor, in surveying all  
 those parts or portions of the \_\_\_\_\_

of the \_\_\_\_\_  
 \_\_\_\_\_ meridian, \_\_\_\_\_ of \_\_\_\_\_, which are represented  
 the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
 corner monuments established, according to the instructions furnished by the United States Surveyor  
 General for \_\_\_\_\_

\_\_\_\_\_, Chainman.  
 \_\_\_\_\_, Chainman.  
 \_\_\_\_\_, Moundman.  
 \_\_\_\_\_, Moundman.  
 \_\_\_\_\_, Axman.  
 \_\_\_\_\_, Axman.  
 \_\_\_\_\_, Flagman.

Subscribed and sworn to before me this \_\_\_\_\_  
 day of \_\_\_\_\_, 190 \_\_\_\_\_ }



## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, bearing date of the \_\_\_\_\_, United States Surveyor General for \_\_\_\_\_, day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_.

For final oath of Deputy see book #7 T. 34 S., R. 12 W.  
15

of the \_\_\_\_\_

meridian, in the \_\_\_\_\_ of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

*United States Deputy Surveyor*

Subscribed by said \_\_\_\_\_, and sworn to before me }

this \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_ }



## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1910, 190

The foregoing field notes of the survey of the Subdivisional lines of Township 35 South, Range 18 West of the Salt Lake Base and Meridian, Utah,

executed by \_\_\_\_\_

Frank T. Roberts

under his contract No. 313, dated April 5, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*Frank T. Roberts*  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

*Frank T. Roberts*  
United States Surveyor General

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Page**

4-679.

FILE

GEO 10

M. H.

"I"

BOOK A-355

## FIELD NOTES

M. S. B.

RE  
OF THE SURVEY OF THE

SEVENTH STANDARD PARALLEL SOUTH

through

TOWNSHIP NO. 35 S., RANGE NO. 19 WEST,

Of the Salt Lake Base and Meridian, Meridian,

in the state of Utah

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,

Under his Contract No. 313, dated April 5, 1909

Survey commenced June 27, 1909

Survey completed June 28, 1909

## NAMES AND DUTIES OF ASSISTANTS.

Sterling Wright, Chainman

Earl V. Woolley, "

Warren Stratton, "

Claude L. Heist, "

Erastus B. Dalley, Moundman

George B. McConnell, "

Joseph D. Foster, Axman

Rodney B. Shelley Flagman

For preliminary affidavits see book "F" T. 35 S., R. 18 W.

BOOK A-355

## INDEX DIAGRAM.

Township 35 South, Range 19 West.

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19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
8	7	6	4	3	2

Meanders Page.....

## PRELIMINARY OATHS OF ASSISTANTS.

WE,

and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chainman

, Chainman

Subscribed and sworn to before me this }  
day of , 190 }



WE,

and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman

, Moundman

Subscribed and sworn to before me this }  
day of , 190 }



WE,

and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axeman

, Axeman

Subscribed and sworn to before me this }  
day of , 190 }



I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman

Subscribed and sworn to before me this }  
day of , 190 }



## RESURVEY OF THE 7TH. STANDARD PARALLEL SOUTH, through RANGE 19 WEST.

## CHAINS

Survey commenced June 27, 1909, and executed with the instrument described in book "A", of this survey. I examine the adjustments of the transit and correct the level and collimation errors, then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the re-established cor. of Tps. 35 S., Rs. 18 and 19 W., heretofore described on the 7th. Standard Parallel South, in approximate latitude  $37^{\circ}45'N.$ , longitude  $113^{\circ}52'W.$ , I set off  $37^{\circ}43'N.$ , on lat.arc,  $23^{\circ}21'N.$  on decl.arc, and at 4h.03m., p.m.l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs.N. of the cor.

June 27, 1909

June 28: At 1h.07m., a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg, driven in the ground, 5 chs.N. of my station. At 7 a.m., I lay off the azimuth of Polaris,  $1^{\circ}29'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.2 ins. east of the mark determined by the solar.

At 8h.03m., a.m., l.m.t., I set off  $37^{\circ}43'N.$ , on lat.arc,  $23^{\circ}19'N.$ , on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs.N. of my station: this mark falls 0.2 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0'10''$  west and east of the meridian established by the Polaris

## RESURVEY OF THE 7TH STANDARD PARALLEL SOUTH, through R.19 WEST.

CHAINS	
	observations: therefore, I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian, at 8h.30m., a.m. is N.16°15'W., the angle thus determined gives the mag.decl.16°15'E.
	From the Stan.Tp.cor.already described, I run <del>lure</del> West, on S.bdy.of sec.36.
21.50	Ascend over rolling land, through dense undergrowth. Enter scattering timber.
29.65	After diligent search no trace can be found of the closing cor.of T.36 S.,Rs.18 and 19 W. Difference between measurement of 40.00 chs., by two sets of chainmen is 8 lks., position of middle point
	By 1st.set, 40.04 chs.,
	By 2nd.set, 39.96 chs., the mean of which is
40.00	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground for re-established stan. $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 36 on N.half, from which
	A cedar, 12 ins.diam., bears N.59°W., 183 lks.dist., marked S C $\frac{1}{4}$ S 36 BT.
	No other trees within limits and raise a mound of stone, 2 ft.base, 1 $\frac{1}{2}$ ft.high, N.of cor.
	Pits impracticable.
	I destroy all traces of the old $\frac{1}{4}$ sec.cor. which bears N.39°W., 209 lks.dist.
55.00	Begin abrupt ascent, bears NW.and SE.
65.25	Rocky spur, projects N.
	Abrupt descent.
79.75	Foot of abrupt descent, bears NE.and SW.
	Ascend over rolling land.
	Difference between measurement of 80.00 chs., by two sets of chainmen is 10 lks., position of middle point
	By 1st.set, 80.05 chs.,
	By 2nd.set, 79.95 chs., the mean of which is
80.00	Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the

## RESURVEY OF THE 7TH STANDARD PARALLEL SOUTH, through R.19 WEST.

## CHAINS

ground, for re-established stan.cor.of secs.35 and 36,  
marked on brass cap, T.35 S S 35 in NW. and R.19 W S 36 in  
N.E. quadrant, from which

A cedar, 6 ins.diam., bears N.17°E., 75 lks.dist.,  
marked S C T.35 S R 19 W S 36 BT.

No other trees within limits and raise a mound of stone,  
2 ft.base,  $1\frac{1}{2}$  ft.high, N.of cor.

Pits impracticable.

I destroy all traces of the old stan.cor.of secs.35 and  
36 which bears N.40°30'W., 237 lks.dist.

Land, rolling and mountainous.

Soil, rocky, 3rd.rate.

Timber, cedar and pinon.

Undergrowth, sage brush.

Mountainous land or land covered with dense undergrowth  
on 80.00 chs.

West, on S.bdy.of sec.35.

Ascend over rolling land, through scattering timber and  
dense undergrowth.

26.00 Leave timber.

Difference between measurement of 40.00 chs., by two sets  
of chainmen is 6 lks.position of middle point

By 1st.set, 39.97 chs.,

By 2nd.set, 40.03 chs., the mean of which is

40.00 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground,  
for re-established stan. $\frac{1}{4}$  sec.cor., marked on brass cap  
 $\frac{1}{4}$  S 35 on N.half, and raise a mound of stone, 2 ft.base,  
 $1\frac{1}{2}$  ft.high, N.of cor.

Pits impracticable.

I destroy all traces of the old stan. $\frac{1}{4}$  sec.cor. which  
bears N.39°W., 246 lks.dist.

48.00 Begin abrupt ascent, bears NE.and SW.

57.00 Rocky spur, projects S.

## RESURVEY OF THE 7TH STANDARD PARALLEL SOUTH, through R.19 W.

CHAINS	
	Descend along steep south slope.
63.00	Enter Hollow, 75 ft. deep, course from W. to SE. Ascend in hollow. Difference between measurement of 80.00 chs., by two sets of chainmen is 12 lks., position of middle point By 1st.set, 80.06 chs., By 2nd.set, 79.94 chs., the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins. dia., in mound of stone and earth, for re-established stan.cor.of secs.34 and 35 marked on brass cap, T 35 S S 34 in NW., R 19 W S 35 in NE.quadrant, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.of cor. Pits impracticable. On account of natural obstacles, it is impossible to set this post over 12 ins.in the ground. I destroy all traces of the old stan.cor.of secs.34 and 35 which bears N.34°W., 256 lks.dist.
	Land, rolling and mountainous. Soil, rocky, 3rd.and 4th.rate. Timber, cedar and pinon. Undergrowth, sage brush. Mountainous land or land covered with dense undergrowth on 80.00 chs.
	West, on S.bdy.of sec.34. Ascend along bottom of hollow, course E., over mountainous land. Leave hollow, course from SW.to E. Abrupt ascent. Ridge, bears NE.and SW. Enter scattering timber. Descend. Hollow, 75 ft.deep, course N. Ascend.
7.25	
18.00	
32.00	

## RESURVEY OF THE 7TH STANDARD PARALLEL SOUTH, THROUGH R. 19 W.

CHAINS	
	Difference between measurement of 40.00 chs., by two sets of chainmen is 12 lks., position of middle point By 1st.set, 40.06 chs., By 2nd.set, 39.94 chs., the mean of which is
40.00	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for re-established stan. $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 34 on N.half, from which A cedar, 5 ins.diam., bears N.22°E., 80 lks.dist., marked S C $\frac{1}{4}$ S 34 BT A cedar, 8 ins.diam., bears N.44°W., 156 lks.dist., marked S C $\frac{1}{4}$ S 34 BT. I destroy all traces of the old stan. $\frac{1}{4}$ sec.cor. which bears N.32°30'W., 281 lks.dist.,
46.70	Top of ascent, bears N. and S. Over flat topped ridge, bears N. and S.
54.00	Begin abrupt descent, bears N. and S.
60.15	Hollow, 100 ft.deep, course NW. Abrupt ascent.
64.75	Rocky spur, projects N. Abrupt descent.
79.50	Enter hollow, 150 ft.deep, course N. Difference between measurement of 80.00 chs., by two sets of chainmen is 14 lks., position of middle point By 1st.set, 79.93 chs., By 2nd.set, 40.07 chs., the mean of which is
80.00	Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the ground, for re-established stan.cor.of secs.33 and 34, marked on brass cap, T 35 S S 33 in NW., R 19 W S 34 in NE. quadrant, from which A cedar, 8 ins.diam., bears N.20°30'E., 24 lks.dist., marked T 35 S R 19 W S 34 BT. A cedar, 6 ins.diam., bears N.37°30'W., 132 lks.dist., marked T 35 S R 19 W S 33 BT.

## RESURVEY OF THE 7TH STANDARD PARALLEL SOUTH, THROUGH R.19 W.

CHAINS	
	I destroy all traces of the old stan.cor.of secs.33 and 34 which bears N.26°15'W., 319 lks.dist. Land, mountainous. Soil, rocky, 3rd. and 4th. rate. Timber,cedar and pinon. Mountainous land on 80.00 chs. June 28: At this cor.I set off 23°18'N., on decl.arc, and at Oh.03m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 37°43'N.
	West, on S.bdy.of sec.33. Over mountainous land in bottom of hollow, course N., through scattering timber.
8.00	Leave hollow, begin abrupt ascent, bears N. and S.
17.00	Rocky spur, projects N.
	Abrupt descent.
24.50	Hollow, 150 ft. deep, course NE.
	Ascend.
38.00	Enter heavy timber, bears N. and S. Difference between measurement of 40.00 chs., by two sets of chainmen is 8 lks.; position of middle point By 1st.set, 40.04 chs.,
	By 2nd.set, 39.96 chs., the mean of which is
40.00	Set an iron post, 3 ft. long, 1 in.dia., 26 ins.in the ground, for re-established stan. $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 33 on N.half, from which A cedar, 6 ins.diam., bears N.1°W., 9 lks.dist., marked S C $\frac{1}{4}$ S 33 BT.
	A cedar, 5 ins.diam., bears N.42°E., 88 lks.dist., marked S C $\frac{1}{4}$ S 33 BT.
	I destroy all traces of the old stan. $\frac{1}{4}$ sec.cor. which bears N.30°15'W., 354 lks.dist. Difference between measurement of 80.00 chs., by two sets

## RESURVEY OF THE 7TH STANDARD PARALLEL SOUTH, THROUGH R. 19 W.

## CHAINS

of chainmen is 6 lks., position of middle point

By 1st.set, 80.03 chs.,

By 2nd.set, 79.97 chs., the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground for re-established stan.cor.of secs. 32 and 33, marked on brass cap, T 35 S S 32 in NW., R 19 W. S 33 in NE. quadrant from which

A cedar, 8 ins. diam., bears N.41°30'E., 24 lks.dist.,

marked T 35 S R 19 W S 33 BT.

A cedar 8 ins. diam., bears N.7°30'W., 57 lks.dist.,

marked T 35 S R 19 W S 32 BT.

I destroy all traces of the old stan.cor.of secs. 32 and 33 which bears N.32°W. 3:59 chs.dist.

Land, mountainous.

Soil, rocky, 3rd. and 4th. rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

West, on S.bdy.of sec. 32.

Ascend through heavy timber, over mountainous land.

29.00 Begin abrupt ascent, bears NE. and SW.

Difference between measurement of 40.00 chs. by two sets of chainmen is 8 lks., position of middle point

By 1st.set, 40.04 chs.,

By 2nd.set, 39.96 chs., the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established stan. $\frac{1}{4}$  sec.cor., marked on brass cap  $\frac{1}{4}$  S 32 on N.half, from which

A cedar, 5 ins. diam., bears N.44°E., 72 lks.dist.,

marked S C  $\frac{1}{4}$  S 32 BT.

A cedar, 5 ins. diam., bears N.86°30'W., 102 lks.dist.,

marked S C  $\frac{1}{4}$  S 32 BT.

I destroy all traces of the old stan. $\frac{1}{4}$  sec.cor. which

## RESURVEY OF THE 7TH STANDARD PARALLEL SOUTH, THROUGH R.19 W.

CHAINS	
	bears N.38°W., 371 lks.dist..
40.25	Spur, projects NE.
	Descend.
51.50	Hollow, 75 ft.deep, course NE.
	Ascend.
67.00	Ridge, bears N. and S..
	Abrupt descent.
76.00	Leave heavy timber, bears N. and S.
	Enter bottom of wide hollow, 100rft.deep, course NW.
	Enter scattering timber.
	Difference between measurement of 80.00 chs., by two sets of chainmen is 12 lks., position of middle point
	By 1st.set, 80.06 chs.,
	By 2nd.set, 79.94 chs., the mean of which is
80.00	Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the ground, for re-established stan.cor.of secs.31 and 32, marked on brass cap, T 35 S S 31 in NW., R.19 W S 32 in NE.quadrant, from which
	A cedar, 12 ins.diam., bears N.17°E., 248 lks.dist., marked T 35 S R 19. W S 32 BT.
	No other trees within limits and raise a mound of stone, 2 ft.base, 1½ ft.high, N.of cor.
	Pits impracticable.
	I destroy all traces of the old stan.cor.of secs.31 and 32 which bears N.37°30'W., 384 lks.dist.
	Land, mountainous.
	Soil, rocky, 3rd.and 4th.rate.
	Timber, cedar and pinon.
	Mountainous land on 80.00 chs.
	West, on S.bdy.of sec.31.
	In wide hollow, course NW., over mountainous land, through scattering timber.

## RESURVEY OF THE 7TH STANDARD PARALLEL SOUTH, THROUGH R. 19 W.

## CHAINS

- 4.00 Leave hollow, begin abrupt ascent, bears NW. and SE.
- 12.50 Rocky ridge, bears N. and S.  
Abrupt descent.
- 17.00 Foot of abrupt descent, bears NW. and SE.  
Gradual descent over rolling land, through heavy timber.  
Difference between measurement of 40.00 chs., by two sets  
of chainmen is 10 lks., position of middle point  
By 1st.set, 40.05 chs.,  
By 2nd.set, 39.95 chs., the mean of which is
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground,  
for re-established stan. $\frac{1}{4}$  sec.cor., marked on brass cap  
 $\frac{1}{4}$  S 31 on N. half, from which  
A cedar, 7 ins. diam., bears N. 61° E., 59 lks. dist.,  
marked S C  $\frac{1}{4}$  S 31 BT.  
A cedar, 6 ins. diam., bears N. 60° W., 27 lks. dist.,  
marked S C  $\frac{1}{4}$  S 31 BT.
- 25.00 ~~I~~ destroyed all traces of the old stan. $\frac{1}{4}$  sec.cor. which  
bears N. 41° W., 398 lks. dist.  
Difference between measurement of 80.00 chs., by two sets  
of chainmen is 8 lks., position of middle point  
By 1st.set, 79.96 chs.,  
By 2nd.set, 80.04 chs., the mean of which is
- 80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the  
ground, for re-established stan.cor. of Tps. 35 P.S., Rsr. 19 and  
20 W., marked on brass cap T 35 S on N. half,  
R 20 W S 36 in NW., and R 19 W S 31 in NE. quadrant,  
from which  
A cedar, 8 ins. diam., bears N. 68° E., 192 lks. dist.,  
marked T 35 S R 19 W S 31 BT.  
A cedar, 12 ins. diam., bears N. 14° 30' W., 145 lks. dist.,  
marked T 35 S R 20 W S 36 BT.
- The old stan.cor. of Tps. 35 S., Rsr. 19 and 20 W., bears  
N. 44° 30' W., 416 lks. dist.

## RESURVEY OF THE 7TH. STANDARD PARALLEL SOUTH, THROUGH RANGE NO. 19 W.

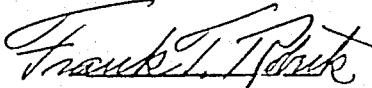
CHAINS

I destroy all traces of the old Stan.Tp.cor.  
Land, mountainous and rolling.  
Soil, rocky, 3rd. and 4th. rate.  
Timber, cedar and pinon.  
Mountainous land, or land covered with heavy timber, on  
80.00 chs.

June 28:, 1909

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For General Description, see Subdivisions of T.35 S., R.  
19 W.

  
U.S. Deputy Surveyor

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by \_\_\_\_\_, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_

owing the respective capacities in which they acted:

For list of names and final oath of assistants see book "Z" T. Chishman.

T. 35 S., R. 14 W., Chainman.

, Moundman.

, Axman.

, Axman.

, Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted \_\_\_\_\_, United States Deputy Surveyor, in surveying all those parts or portions of the \_\_\_\_\_

of the \_\_\_\_\_  
meridian, \_\_\_\_\_ of \_\_\_\_\_, which are represented  
the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
is been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
new monuments established, according to the instructions furnished by the United States Surveyor  
General for \_\_\_\_\_

, Chainman.

, Chainman.

, Moundman.

, Moundman.

, Axman.

, Axman.

, Flagman.

scribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190 \_\_\_\_\_ }



## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, United States Surveyor General for \_\_\_\_\_, bearing date of the \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_.

For final oath of deputy see book "Z" T. 35 S., R. 14 W.

\_\_\_\_\_ of the \_\_\_\_\_ meridian, in the \_\_\_\_\_ of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

*United States Deputy Surveyor*

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_. }



## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1910 *RE*

The foregoing field notes of the <sup>re</sup> survey of the Seventh Standard Parallel South through Range 18 West of the Salt Lake Base and Meridian, Utah

executed by \_\_\_\_\_ Frank T. Roberts  
under his contract No. 313, dated April 5, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*Thomas Marshall*  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

*United States Surveyor General*

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4-679.

"J"

BOOK A-355

FILED  
DEC 1909  
*[Handwritten signature]*

## FIELD NOTES

OF THE SURVEY OF THE

WESTERN BOUNDARY

of

TOWNSHIP NO. 35 SOUTH, RANGE NO. 19 WEST,

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,

Under his Contract No. 313, dated April 5, 1909

Survey commenced June 29, 1909

Survey completed June 30, 1909

6-151

*W. R. D. 6-01-26  
CL 5-48*

## NAMES AND DUTIES OF ASSISTANTS.

Sterling Wright, Chainman

Claude L. Heist, "

Fraetus B. Dalley, Moundman

George B. McConnell, "

Joseph D. Foster, Axman

Earl V. Woolley, "

Rodney B. Shelley, Flagman

## BOOK A-355

## INDEX DIAGRAM.

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Meanders Page.....

## PRELIMINARY OATHS OF ASSISTANTS.

We, Sterling Wright and Claude L. Heist, do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the W.bdy. of T. 35 S., R. 19 W., N.bdy. of T. 35 S., R. 20 W., N.bdy. T. 34 S., R. W... and fractl. E.bdy. of Tps. 35 and 36 S., R. 15 W., S.L.B. & M., in the state of Utah.

Sterling Wright, Chainman.  
Claude L. Heist, Chainman.

Subscribed and sworn to before me this 29th.

day of June, 190 9



Frank T. Roberts

U.S. Deputy Surveyor

We, Erastus B. Balley, and George B. McConnell, do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the W.bdy. of T. 35 S., R. 19 W., N.bdy. of T. 35 S., R. 20 W., N.bdy. T. 34 S., R. 12 and fractl. E.bdy. of Tps. 35 and 36 S., R. 15 W., S.L.B. & M., in the state of Utah.

Erastus B. Balley, Moundman.  
George B. McConnell, Moundman.

Subscribed and sworn to before me this 29th.

day of June, 190 9



Frank T. Roberts

U.S. Deputy Surveyor

We, Joseph D. Foster and Earl V. Woolley,

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the W.bdy. of T. 35 S., R. 19 W., N.bdy. of T. 35 S., R. 20 W., N.bdy. of T. 34 S., R. 12 and fractl. E.bdy. of Tps. 35 and 36 S., R. 15 W., S.L.B. & M., in the state of Utah.

Joseph D. Foster, Axman.  
Earl V. Woolley, Axman.

Subscribed and sworn to before me this 29th.

day of June, 190 9



Frank T. Roberts

U.S. Deputy Surveyor

I, Rodney B. Shelley, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the W.bdy. of T. 35 S., R. 19 W., N.bdy. of T. 35 S., R. 20 W., N.bdy. of T. 34 S., R. 12 W., and fractl. E.bdy. of Tps. 35 and 36 S., R. 15 W., S.L.B. & M., in the state of Utah.

Rodney B. Shelley, Flagman.

Subscribed and sworn to before me this 29th.

day of June, 190 9



Frank T. Roberts

U.S. Deputy Surveyor

## WEST BOUNDARY OF T. 35 S., R. 19 W.

## CHAINS

Survey commenced June 29, 1909, and executed with the instrument described in book "A", of this survey. I examine the adjustments of the transit and correct the level and collimation errors, then to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the re-established stan.cor. of Tps. 35 S., Rs. 19 and 20 W., heretofore described on the 7th. Standard Parallel South, in approximate latitude  $37^{\circ}43'N.$ , longitude  $113^{\circ}59'W.$ , I set off  $37^{\circ}43'N.$ , on lat.arc,  $23^{\circ}15'N.$ , on decl.arc, and at 4h.03m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs.N. of the cor.

June 29, 1909

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June 30: At 1h.00m., a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg, driven in the ground, 5 chs.N. of my station.

At 7 a.m., I lay off the azimuth of Polaris,  $1^{\circ}29'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 8h.03m.. a.m., l.m.t., I set off  $37^{\circ}43'N.$ , on lat.arc,  $23^{\circ}13'N.$ , on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs.N. of my station: this mark falls 0.3 ins. east of the meridian established by the Polaris observations.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0^{\circ}16'$  west and east of the meridian established by the Polaris

## WEST BOUNDARY OF T.35 S., R.19 W.

## CHAINS

observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8h.30m., a.m. is N.16°15'W., the angle thus determined gives the mag.decl.16°15'E.

From the stan.Tp.cor.I run north on the west bdy.of T. 35 S., R.19 W.on a true line as I know from the falling of the E.bdy.that this line will not fall within limits on the cor.of Tps.34 and 35 S.,Rs.19 and 20 W.

Therefore I run

North, bet.secs.31 and 36.

Descend over rolling land, through heavy timber.

37.50 Leave timber,bears NE.and SW.

Enter sparse undergrowth.

40.00 Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground, for  $\frac{1}{4}$  sec.cor.,marked on brass cap, $\frac{1}{4}$  S 36 on W.half,S 31 on E.half,from which

A cedar,18 ins.diam.,bears S.85°E.,136 lks.dist., marked  $\frac{1}{4}$  S 31 BT.

A cedar,7 ins.diam.,bears S.53°W.,180 lks.dist., marked  $\frac{1}{4}$  S 36 BT.

80.00 Set and iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for cor.of secs.25-30-31 and 36,marked on brass cap T 35 S. on N.half,

R 20 W S 25 in NW.,

R 19 W S 30 in NE.,

S 31 in SE.and

S 36 in SW.quadrant, and raise a mound of stone,2 ft.base,  $1\frac{1}{2}$  ft.high,W.of cor.

Pits impracticable.

Land,rolling.

Soil,rocky,3rd.mate.

Timber, cedar and pinon. Undergrowth, sage brush.

Heavily timbered land on 37.50 chs.

## WEST BOUNDARY OF T. 35 S., R. 19 W.

CHAINS	North, bet. secs. 25 and 30.
	Descend over rolling land, through sparse undergrowth.
25.50	Hollow, 100 ft. deep, course NE.
	Abrupt ascent.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 25 on W. half, S 30 on E. half, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
45.00	Spur, projects NE.
	Abrupt descent.
63.00	Enter hollow, 100 ft. deep, course NE.
65.49	Center of track of San Pedro, Los Angeles and Salt Lake Railroad, bears N. 47° 13' E., and S. 47° 13' W.
66.10	Telegraph line, bears NE. and SW.
68.00	Road from Caliente to Modena, bears NE. and SW.
71.00	Leave hollow, course NE.
	Ascend over rolling and rocky land.
80.00	Set an iron post, 3 ft. long, 3 ins. dia. in mound of earth, for cor. of secs. 19-24-25 and 30, marked on brass cap T 35 S on N. half, R 20 W S 24 in NW., R 19 W S 19 in NE., S 30 in SE. and S 25 in SW. quadrant, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	On account of natural obstacles it is impossible to set this post over 12 ins. in the ground.
	Land, rolling and mountainous.
	Soil, rocky, 3rd. and 4th. rate.
	No timber.
	Undergrowth, sage brush.
	Mountainous land on 37.50 chs.

## WEST BOUNDARY OF T. 35 S., R. 19 W.

CHAINS	
	North, bet. secs. 19 and 24.
	Ascend over rolling and rocky land, through sparse undergrowth.
11.00	Spur, projects NE.
	Descend.
19.50	Hollow, 150 ft. deep, course NE.
	Ascend.
26.00	Spur, projects E.
	Descend.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. marked on brass cap, $\frac{1}{4}$ S 24 on W. half, S 19 on E. half, from which
	A cedar, 5 ins. diam., bears N. 16° W., 45 lks. dist., marked $\frac{1}{4}$ S 24 BT.
	A cedar, 4 ins. diam., bears N. 1° E., 50 lks. dist., marked $\frac{1}{4}$ S 19 BT.
	Enter scattering timber.
48.50	Hollow, 150 ft. deep, course NE.
	Abrupt ascent.
57.00	Spur, projects E.
	Descend.
73.00	Hollow, 100 ft. deep, course E.
	Ascend.
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 13-18-19 and 24, marked on brass cap T 35. S on N. half,
	R 20 W S 13 in NW.,
	R 19 W S 18 in NE.,
	S 19 in SE. and
	S 24 in SW. quadrant, from which
	A cedar, 10 ins. diam., bears N. 29° 45' E., 87 lks. dist., marked T 35 S R 19 W S 18 BT.
	A cedar, 9 ins. diam., bears S. 57° E., 60 lks. dist., marked T 35 S R 19 W S 19 BT.

## WEST BOUNDARY OF T.35 S., R.19 W.

## CHAINS

A cedar, 8 ins. diam., bears S.72°W., 88 lks.dist., marked T 35 S R 20 W S 24 BT.

A cedar, 6 ins. diam., bears N.29°W., 81 lks.dist., marked T 35 S R 20 W S 13 BT.

Land, mountainous and rolling.

Soil, rocky, 3rd. and 4th. rate.

Timber, cedar and pinon.

Undergrowth, sage brush.

Mountainous land on 6.9.00 chs.

June 30: At this cor. I set off 23°12'N. on decl.arc, and at Oh.03m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 37°46'N.

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North, bet.secs. 13 and 18.

Ascend over rolling and rocky land, through scattering timber.

36.00 Ridge; bears E. and W.

Descend.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 13 on W.half, S 18 on E.half, from which

A cedar, 15 ins. diam., bears N.31°30'W., 108 lks.dist., marked  $\frac{1}{4}$  S 13 BT.

A cedar, 15 ins. diam., bears S.2°E., 29 lks.dist., marked  $\frac{1}{4}$  S 18 BT.

50.00 Wash, 3.00 chs.wide, 25 ft.deep, course NE.

80.00 Set an iron post, 3 ft. long, 3 ins. dia., in mound of stone and earth, for cor.of secs. 7-12-13 and 18, marked on brass cap, T 35 S on N.half,  
R 20 W S 12 in NW.,  
R 19 W S 7 in NE.,  
S 18 in SE. and  
S 13 in SW.quadrant, from which

A cedar, 15 ins. diam., bears N.62°E., 295 lks.dist.,

## WEST BOUNDARY OF T. 35 S., R. 19 W.

CHAINS

marked T 35 S R 19 W S 7 BT.

A cedar, 5 ins. diam., bears S. 37° E., 177 lks. dist.,  
marked T 35 S R 19 W S 18 BT.A cedar, 12 ins. diam., bears S. 45° 30' W., 118 lks. dist.,  
marked T 35 S R 20 W S 13 BT.A cedar, 10 ins. diam., bears N. 48° W., 107 lks. dist.,  
marked T 35 S R 20 W S 12 BT.On account of natural obstacles it is impossible to set  
this post over 12 ins. in the ground.

Land, rolling.

Scil, rocky, 3rd. and 4th. rate.

Timber; cedar and pinon.

North, bet. secs. 7 and 12.

Over rolling rocky land, through scattering timber.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground,  
for  $\frac{1}{4}$  sec. cor. marked on brass cap,  $\frac{1}{4}$  S 12 on W. half,  
S 7 on E. half, from whichA cedar, 6 ins. diam., bears N. 89° W., 64 lks. dist.,  
marked  $\frac{1}{4}$  S 12 BT.A cedar, 24 ins. diam., bears S. 33° E., 34 lks. dist.,  
marked  $\frac{1}{4}$  S 7 BT.

41.00 Enter heavy cedar and pinon timber, bears E. and W.

42.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground  
for cor. of secs. 1-6-7 and 12, marked on brass cap

T 35 S on N. half,

R 20 W S 1 in NW.,

R 19 W S 6 in NE.,

S 7 in SE., and

S 12 in SW. quadrant, from which

A cedar, 7 ins. diam., bears N. 2° 30' E., 60 lks. dist.,  
marked T 35 S R 19 W S 6 BT.

## WEST BOUNDARY OF T.35 S., R.19 W.

## CHAINS

A cedar, 10 ins. diam., bears S.13°E., 28 lks.dist.,  
marked T 35 S R 19 W S 7 BT.

A cedar, 28 ins. diam., bears S.68°30'W., 67 lks.dist.,  
marked T 35 S R 20 W S 12 BT.

A cedar, 26 ins. diam., bears N.62°30'W., 69 lks.dist.,  
marked T 35 S R 20 W S 1 BT.

Land, rolling.

Soil, rocky, 3rd. rate.

Timber; cedar and pinon.

Land covered with heavy timber on 39.00 chs.

North, bet. secs. 1 and 6.

Descend over rolling and rocky land, through heavy timber.

28.00 Leave heavy timber, bears NW. and SE.

Enter scattering timber.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground  
for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 1 on W.half,  
S 6 on E.half, from which

A cedar, 7 ins., diam., bears S.13°E., 131 lks.dist.,  
marked  $\frac{1}{4}$  S 6 BT.

A cedar, 15 ins. diam., bears N.59°W., 25 lks.dist.,  
marked  $\frac{1}{4}$  S 1 BT.

49.00 Hollow, 75 ft. deep, course NE.

Ascend.

53.25 Spur, projects E.

Abrupt descent.

Leave timber.

55.50 Enter bottom of wide hollow, 100 ft. deep, course SE.

Enter dense undergrowth.

62.50 Road from Pioche to Modena, bears NW. and SE.

68.50 Leave hollow.

Ascend over rocky land, through scattering timber.

72.00 Spur, projects SW.

## WEST BOUNDARY OF T.35 S., R.19 W.

CHAINS	
	Descend.
74.00	Enter bottom of same hollow, course w. Leave timber, enter desne undergrowth.
81.26	Intersect S.bdy.of T.34 S., R.19 W., 5.48 chs., E.of the cor.of Tps.34 and 35 S.,Rs.19 and 20 W., which is a quartzite stone, 24x18x 15 ins. above ground, marked and witnessed as described by the surveyor general. Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the ground for closing cor.of Tp.35 S.,Rs.19 and 20 W., marked on brass cap, CGT34 S 1 R 20 W S 36 R 19 W S 31 on N.half, S 1 R 20 W S 6 R 19 W T 35 S ,on S.half, dig pits, 30x24x12 ins., crosswise on each line, E.and W. 4 ft. and S.of post, 8 ft.dist., and raise a mound of earth, 5 ft.base, $2\frac{1}{2}$ ft.high, S.of cor. I destroy all marks on the cor.of Tps.34 and 35 S.,Rs. 19 and 20 W.,that pertain to T.35 S. Land, rolling and bottom land. Soil, rocky, 3rd.rate on 62.00 chs. balance, loam, 1st.rate. Timber, cedar and pinon. Undergrowth, greasewood and sage brush. Heavily timbered land, or land covered with dense undergrowth on 48.26 chs.

June 30, 1909

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For General Description see Subdivisions of T.35 S.,  
R.19 W.

## BOUNDARIES OF T.35 S., R.19 W.

Latitudes, departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
			Chs.	Chs.	Chs.	Chs.
7th Stan. Par. S. West,		480.00				480.00
West Bdy.	North	481.26	481.26			
S. Bdy. of T.34 S., R.19 W. East, and 18 W. S.89°48'E.		473.55 7.39			473.55 7.39	
East Bdy.	South,	481.46		481.46		
Convergency					0.56	
Totals,		481.26	481.49	481.50	480.00	
			481.26	480.00		
Error in lat. and dep.				0.23	1.50	

*Franklin T. Tolson*  
U. S. Deputy Surveyor

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Page

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by \_\_\_\_\_, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_

showing the respective capacities in which they acted:

For list of names and final oath of assistants see book "Z" <sup>13</sup>, Chainman.

T. 34 S., R. 12 W. \_\_\_\_\_, Chainman.

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted \_\_\_\_\_, United States Deputy Surveyor, in surveying all those parts or portions of the \_\_\_\_\_

of the \_\_\_\_\_

meridian, \_\_\_\_\_ of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for \_\_\_\_\_

\_\_\_\_\_, Chainman.

\_\_\_\_\_, Chainman.

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Flagman.

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190\_\_\_\_\_



## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..... United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ..... bearing date of ..... day of ..... 190 ..... I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ..... the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of ..... of the

For final oath of deputy see book "Z" T. 34 S., R. 12 W.

..... meridian, in the ..... of ..... which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said ..... and sworn to before me }  
this ..... day of ..... 190 }



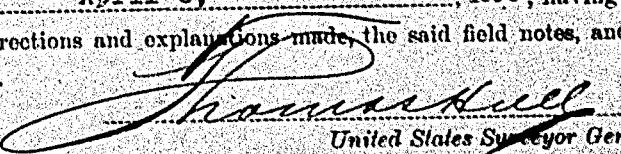
## APPROVAL.

## OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, April 21, 1910.

The foregoing field notes of the survey of ..... the West Boundary of Township No. ..... South, Range No. 19 West of the Salt Lake Base and Meridian, Utah,

executed by ..... Frank T. Roberts  
under his contract No. 313, dated April 5, 1909, having  
critically examined, and the necessary corrections and explanations made, the said field notes, and  
surveys they describe, are hereby approved.

  
United States Surveyor Gen

I certify that the foregoing transcript of the field notes of the above-described surveys in .....  
has been correctly copied from the original notes on file in this office.

United States Surveyor Gen

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M.W.

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BOOK A-355

## FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISIONS

of

TOWNSHIP NO. 35 SOUTH, RANGE NO. 19 WEST,

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,

Under his Contract No. 313, dated April 5, 1909

Survey commenced July 1, 1909

Survey completed July 12, 1909

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Lip. 60-05-91  
32-87v

## NAMES AND DUTIES OF ASSISTANTS.

Sterling Wright,	Chairman
Claude L. Heist,	"
Erastus B. Dalley,	Moundman
George B. McConnell,	"
Joseph D. Foster,	Axman
Earl V. Woolley,	"
Rodney B. Shelley,	Flagman

For preliminary affidavits see book "E" T. 35 S., R. 17 W.

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Volume  
#  
R0355

## BOOK A-355

## INDEX DIAGRAM.

*Township 35 South, Range 19 West,*

9	55	5	40	4	30	3	19	2	10	1
54		53		40		29		19		9
7	52	8	39	0	28	10	18	11	8	12
52		51		38		27		17		7
18	50	17	37	16	26	15	16	14	7	13
50		49		36		26		15		6
10	48	20	35	21	25	22	14	23	5	24
47		46		34		24		14		4
30	45	29	33	28	23	27	13	26	3	25
44		43		32		22		12		8
31	42	39	31	33	21	34	11	35	3	36

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## PRELIMINARY OATHS OF ASSISTANTS.

WE, \_\_\_\_\_ and \_\_\_\_\_

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of \_\_\_\_\_

, Chainman

, Chainman

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190\_\_\_\_\_ }



WE, \_\_\_\_\_ and \_\_\_\_\_

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of \_\_\_\_\_

, Moundman

, Moundman

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190\_\_\_\_\_ }



WE, \_\_\_\_\_ and \_\_\_\_\_

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of \_\_\_\_\_

, Axman

, Axman

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190\_\_\_\_\_ }



I, \_\_\_\_\_, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of \_\_\_\_\_

, Flagman

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190\_\_\_\_\_ }



## SUBDIVISIONS OF T.35 S., R.19 W.

## CHAINS

Survey commenced, July 1, 1909, and executed with the instrument described in book "A", of this survey. I examine the adjustments of the transit, and correct the level and collimation errors, then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the re-established stan.cor. of secs. 35 and 36, heretofore described on the 7th. Stan. Par. South, in approximate latitude,  $37^{\circ}43'N.$ , longitude  $113^{\circ}53'W.$ , I set off  $37^{\circ}43'N.$ , on lat.arc,  $23^{\circ}08'N.$ , on decl.arc, and at 4h. 03m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chs.N. of the cor.

July 1, 1909

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July 2: At 9h. 52m., a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg, driven in the ground, 5 chs.N. of my station. At 7 a.m., I lay off the azimuth of Polaris,  $1^{\circ}29'$  to the west and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 8h. 04m., a.m., l.m.t., I set off  $37^{\circ}43'N.$ , on lat.arc,  $23^{\circ}05'N.$ , on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs.N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation. The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0'16''$  west and east of the meridian established by the Polaris

## SUBDIVISIONS OF T.35 S., R.19 W.

CHAINS	
	observations; therefore, I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian at 8h.30m., a.m. is N.16°15'W., the angle thus determined gives the mag.decl.16°15' E.
	From the stan.sec.cor., already described, I run N.0°01'W., bet.secs.35 and 36.
	Descend over rolling land, through scattering timber.
40.00	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 35 on W.half, S 36 on E.half, from which A cedar, 6 ins.diam., bears S.63°E.; 204 lks.dist., marked $\frac{1}{4}$ S 36 BT. No other trees within limits, and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, W.of cor. Pits impracticable. Leave timber.
80.00	Set an iron post, 3 ft.long, 2 ins.dia., 24 ins.in the ground, for cor.of secs.25-26-35 and 36, marked on brass cap T 35 S S 26 in NW., R 19 W S 25 in NE., S 36 in SE.and S 35 in SW.quadrant, and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, W.of cor. Pits impracticable. Land, rolling. Soil, rocky, 2nd.and 3rd.rate. Timber, cedar and pinon.
	East, on a random line, bet.secs.25 and 36.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.00	Intersect E.bdy.of Tp., 3 lks.S.of the re-established cor. of secs.25-30-31 and 36, heretofore described. Thence I run S.89°59'W., on a true line,

## SUBDIVISIONS OF T.35 S., R.19 W.

## CHAINS

Bet. secs. 25 and 36.

Gradual ascent over rolling land, through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 25 on N.half, S 36 on S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

80.00 The cor. of secs. 25-26-35 and 36.

Land, rolling.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush.

Dense undergrowth on 80.00 chs.

N. 0° 01' W., bet. secs. 25 and 26.

Gradual descent over rolling land, through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 26 on W.half, S 25 on E.half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

72.50 Begin abrupt ascent over rocky land, bearing NW. and SE.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 25-24-25 and 26, marked on brass cap, T 35 S S 23 in NW., R 19 W S 24 in NE., S 25 in SE. and S 26 in SW. quadrant, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, rolling and mountainous.

Soil, loam, 1st. rate on 72.50 chs.

balance rocky, 3rd. rate.

## SUBDIVISIONS OF T.35 S., R.19 W.

## CHAINS

- No timber.
- Undergrowth, sage brush.
- Land covered with denseundergrowth or mountainous land on  
80.00 chs.
- 
- N.89°59'E., on a random line, betsecs. 24 and 25.
- 40.00 Set temp. $\frac{1}{4}$  sec.cor.
- 80.04 Intersect E.bdy.of Tp., 9 lks.S. of the re-established cor.  
of secs.19-24-25 and 30, heretofore described.
- Thence I run
- S.89°55'W., on a true line,
- Betsecs. 24 and 25.
- In bottom of wide hollow, course SE., over level and rocky  
land.
- 16.00 Leave hollow, begin abrupt ascent over rocky and mountain  
land.
- 40.02 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground  
for  $\frac{1}{4}$  sec.cor., marked on brass cap, $\frac{1}{4}$  S 24 on N.half,  
S 25 on S.half, and raise a mound of stone, 2 ft.base,  
 $1\frac{1}{2}$  ft.high, N.of cor.
- Pits impracticable.
- 42.50 Ridge, bears NW.and SE.
- Descend.
- 60.50 Hollow, 75 ft.deep, course SW.
- Abrupt ascent.
- 65.20 Spur, projects S.
- Abrupt descent.
- 80.04 The cor.of secs. 23-24-25 and 26.
- Land, level and mountainous.
- Soil, rocky, 3rd.rate.
- No timber.
- Mountainous land on 64.04 chs.
- July 2: At this cor.I set off 23°04'N., on decl.arc, and

## SUBDIVISIONS OF T.35 S., R.19 W.

## CHAINS

at .0h.04m., p.m., l.m.t., observe the sun on the meridian,  
the resulting lat. is  $37^{\circ}45'N.$

N.0°01'W., bet.secs.23 and 24.

Ascend abruptly over rocky and mountainous land.

9.00 Spur, projects SW.

Descend.

18.00 Hollow, 75 ft. deep, course SW.

Ascend abruptly along steep, broken and rocky west slope.

40.00 Set an iron post, 3 ft. long, 1 in. dia., in mound of stone,  
for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 23 on W.half,  
S 24 on E.half, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$   
ft. high, W.of cor.

Pits impracticable.

As this cor.is set in a bed of lava boulders, it is  
impossible to set it over 12 ins.in the ground.

49.00 Ridge, bears NW.and SE.

Ascend along east slope of ridge.

Enter scattering timber.

80.00 Set an iron post, 3 ft. long, 2 ins.dia., 24 ins.in the  
ground, for cor.of secs.13-14-23 and 24, marked on brass cap  
T 35 S S 14 in NW.,

R 19 W S 13 in NE.,

S 24 in SE.and

S 23 in SW.quadrant, from which

A cedar, 6 ins.diam., bears S.46°E., 27 lks.dist.,

marked T 35 S R 19 W S 24 BT.

No other trees within limits and raise a mound of stone,  
2 ft. base,  $1\frac{1}{2}$  ft. high, W.of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd.and 4th.rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

## SUBDIVISIONS OF T. 35 S., R. 19 W.

CHAINS	
	N. 89° 55' E., on a random line, bet. secs. 13 and 24.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect E. bdy. of Tp., 3 lks. N. of the re-established cor. of secs. 13-18-19 and 24, heretofore described. Thence I run S. 89° 56' W., on a true line, Bet. secs. 13 and 24.
	Descend abruptly over rocky and mountainous land.
5.00	Hollow, 125 ft. deep, course S.
	Abrupt ascent.
25.65	Ridge, bears N. and S.
	Abrupt descent.
33.00	Hollow, 100 ft. deep, course S.
	Abrupt ascent.
40.03	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 13 on N. half, S 24 on S. half, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
49.50	Rocky spur, projects S.
	Abrupt descent.
64.50	Hollow, 100 ft. deep, course S.
	Abrupt ascent.
	Enter scattering timber.
80.06	The cor. of secs. 13-14-23 and 24.
	Land, mountainous.
	Soil, rocky, 3rd. and 4th. rate.
	Timber, cedar and pinon.
	Mountainous land on 80.06 chs.
	July 2, 1909

## SUBDIVISIONS OF T.35 S., R.19 W.

## CHAINS

July 3,: At 7h.04m., a.m., l.m.t., I set off  $37^{\circ}46'N.$ , on lat. arc,  $23^{\circ}01'N.$ , on decl.arc, and determine a meridian with the solar at the cor.of secs.13-14-23 and 24.

Thence I run

$N.0^{\circ}01'W.$ , bet.secs.13 and 14.

Ascend over rocky and mountainous land.

10.00 Ridge, bears NE. and SW.

Descend abruptly along steep west slope.

40.00 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for  $\frac{1}{2}$  sec.cor., marked on brass cap, $\frac{1}{2}$  S 14 on W. half, S 13 on E.half, and raise a mound of stone, 2 ft.base,  $1\frac{1}{2}$  ft.high,W.of cor.

Pits impracticable.

65.00 Hollow, 125 ft.deep, course W.

Abrupt ascent.

80.00 Set an iron post, 3 ft.long, 2 ins.dia., in mound of stone and earth, for cor.of secs.11-12-13 and 14, marked on brass cap, T 35 S S 11 in NW.,  
R 19 W S 12 in NE.,  
S 13 in SW., and  
S 14 in SW.quadrant, from which

A cedar, 6 ins.diam., bears S.21°F., 66 lks.dist.,  
marked T 35 S R 19 W S 13 BT.

No other trees within limits and raise a mound of stone, 2 ft.base,  $1\frac{1}{2}$  ft.high,W.of cor. Pits impracticable.

Impossible to set post 24 ins.in the ground.on account of natural obstacles.  
Land, mountainous.

Soil, rocky, 3rd.and 4th.rate.

Timber, a few scattering cedars.

Mountainous land on 80.00 chs.

$N.89^{\circ}56'E.$ , on a random line,bet.secs.12 and 13.

40.00 Set temp. $\frac{1}{2}$  sec.cor.

80.08 Intersect E.bdy.of Tp., 3 lks.S.of the re-established cor.of secs

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## SUBDIVISIONS OF T. 35 S., R. 19 W.

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CHAINS	
	7-12-13 and 18, heretofore described.
	Thence I run
	S.89°55'W., on a true line,
	Bet. secs. 12 and 13.
	Ascend abruptly over rocky and mountainous land along steep north slope.
8.00	Enter scattering timber.
32.00	Leave timber.
40.04	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 12 on N. half, S 13 on S. half, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
45.00	Enter scattering timber.
62.48	Rocky ridge, bears NW. and SE.
	Leave timber.
	Descend along steep south slope.
80.08	The cor. of secs. 11-12-13 and 14.
	Land, mountainous.
	Soil, rocky, 3rd. and 4th. rate.
	Timber, cedar and pinon.
	Mountainous land on 80.00' chs.
	N.0°01'W., bet. secs. 11 and 12.
	Ascend over rocky and mountainous land.
2.00	Rocky ridge, bears NE. and SW.
	Abrupt descent.
32.00	Enter scattering timber.
40.00	Set an iron post, 3 ft. long, 1 in. dia., in mound of stone and earth, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 11 on W. half, S 12 on E. half, from which A cedar, 12 ins. diam., bears S.54°E., 78 lks. dist., marked $\frac{1}{4}$ S 12 BT.

## SUBDIVISIONS OF T.35 S., R.19 W.

CHAINS

- A cedar, 8 ins. diam., bears S.  $60^{\circ}$  W., 49 lks. dist., marked  $\frac{1}{4}$  S 11 BT. On account of natural obstacles it is impossible to set this post over 12 ins. in the ground.
- 45.00 Foot of abrupt descent, bears NW. and SE.
- Descend over rolling land, through dense undergrowth. Leave timber.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 1-2-11 and 12, marked on brass cap T 35 S S 2 in NW., R 19 W S 1 in NE., S 12 in SE. and S 11 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
- Land, mountainous and rolling.
- Soil, rocky, 3rd. and 4th. rate.
- Timber, cedar and pinon.
- Undergrowth, sage brush.
- Mountainous land or land covered with dense undergrowth on 80.00 chs..
- July 3: At this cor. I set off  $22^{\circ}59'N.$ , on decl. arc, and at 0h. 04m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $37^{\circ}48'N.$
- 
- N.  $89^{\circ}55'E.$ , on a random line, bet. secs. 1 and 12.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.90 Intersect E. bdy. of Tp., 9 lks. N. of the re-established cor. of secs. 1-6-7 and 12, heretofore described.
- Thence I run S.  $89^{\circ}59'W.$ , on a true line, bet. secs. 1 and 12.
- Ascend over rolling land, through sparse undergrowth.
- 39.95 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 1 on N. half,

## SUBDIVISIONS OF T.35 S., R.19 W.

## CHAINS

- S 12 on S.half, and raise a mound of stone, 2 ft. base,  
 $1\frac{1}{2}$  ft. high, N.of cor.  
 Pits impracticable.
- 79.90 The cor.of secs.1-2-11 and 12.  
 Land, rolling.  
 Soil, rocky, 2nd. rate.  
 No timber.  
 Undergrowth, sage brush.
- 
- Knowing from the closing of the east bdy. that the line bet.secs.1 and 2 will not close within limits on the N.bdy.of the Tp., therefore I run  
 N.0°01'W., on a true line,  
 Bet.secs.1 and 2.  
 Descend over rolling land, through sparse undergrowth.
- 28.00 Enter bottom of wide hollow, 50 ft. deep, course E.  
 Over level land.
- 40.00 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 2 on W.half,  
 S 1 on E.half, dig pits, 18x18x12 ins., N.and S.of post,  
 3 ft.dist., and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft. high, W.of cor.
- 49.00 Leave hollow, begin ascending over rolling land.
- 81.48 Intersect S.bdy.of T.34 S., R.19 W., 7.35 chs.E.of the cor. of secs.1-2-35 and 36, which is a trachyte stone, 6x10x6 ins.above the ground, marked and witnessed as described by the surveyor general.  
 Set an iron post, 3 ft.long, 2 ins.dia., 24 ins.in the ground, for closing cor.of secs.1 and 2,marked on brass cap, T 34 S S 35CCR 19 W S 36 in N.half, and  
 T 35 S S 2 R 18 W S 1 in S.half,dig pits, 24x18x12 ins., crosswise on each line, E.and W. 3 ft.and S.of post,  
 7 ft.dist., and raise a mound of earth, 4 ft.base, 2 ft. high, S.of cor.

## SUBDIVISIONS OF T.35 S., R.19 W.

CHAINS

I destroy all marks on the cor. of secs. 1--2-35 and 36, that pertain to T.35 S. Land, rolling and level.

Soil, rocky, 2nd. rate on 60.48 chs.

balance loam, 1st. rate.

No timber.

Undergrowth, sage brush.

July 3, 1909

July 4: At 7h.04m., a.m., i.m.t., I set off  $37^{\circ}43'N.$ , on lat. arc,  $22^{\circ}56'N.$ , on decl. arc, and determine a meridian with the solar at the re-established stan.cor. of secs. 34 and 35, heretofore described on the 7th. Stan. Par. South, Thence I run

$N.0^{\circ}01'W.$ , bet. secs. 34 and 35.

Ascend abruptly over rocky and mountainous land.

12.00 Rocky ridge, bears NE. and SW.

Abrupt descent.

35.00 Enter wide hollow, 200 ft. deep, course E.

Over level land, through scattering timber.

40.00 Set an iron post, 3. ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 34 on W. half, S 35 on E. half, from which

A cedar, 5 ins. diam., bears  $S.23^{\circ}E.$ , 78 lks. dist., marked  $\frac{1}{4}$  S 35 BT.

A cedar, 5 ins. diam., bears  $S.30^{\circ}W.$ , 92 lks. dist., marked  $\frac{1}{4}$  S 34 BT.

Leave timber.

50.00 Leave hollow, begin abrupt ascent.

67.50 Ridge, bears NE. and SW.

Enter scattering timber.

Descend.

74.00 Head of hollow, course NW.

Leave timber.

Abrupt ascent.

## SUBDIVISIONS OF T. 35 S., R. 19 W.

## CHAINS

- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., in mound of stone and earth, for cor. of secs. 26-27-34 and 35, marked on brass cap, T 35 S S 27 in NW.,  
R 19 W S 26 in NE.,  
S 35 in SE. and .  
S 34 in SW. quadrant, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.
- On account of natural obstacles it is impossible to set this post over 12 ins. in the ground.
- Land, mountainous.
- Soil, rocky, 3rd. and 4th. rate.
- Timber, cedar and pinon.
- Mountainous land on 80.00 chs.
- 
- East, on a random line, bet. secs. 26 and 35.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.02 Intersect N. and S. line, 3 lks. S. of the cor. of secs. 25-26-35 and 36.
- Thence I run  
S. 89° 59' W., on a true line,  
Bet. secs. 26 and 35.
- Ascend over rolling land, through dense undergrowth.
- 16.00 Begin abrupt ascent, bears NW. and SE.
- 20.50 Rocky spur, projects SE.
- Abrupt descent.
- 24.00 Foot of abrupt descent, bears NW. and SE.
- Gradual ascent over rolling land.
- 40.01 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor. marked on brass cap,  $\frac{1}{4}$  S 26 on N. half, S 35 on S. half, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
Pits impracticable.

## SUBDIVISIONS OF T.35' S., R.19' W.

CHAINS	
49.00	Begin abrupt ascent, bears N. and S. Enter scattering timber.
72.00	Rocky ridge, bears NE. and SW. Leave timber. Abrupt descent.
80.02	The cor. of secs. 26-27-34 and 35. Land, rolling and mountainous. Soil, rocky, 3rd. and 4th. rate. Timber, cedar and pinon. Undergrowth sage brush. Mountainous land or land covered with dense undergrowth on 80.02 chs.
	N. 0° 01' W., bet. secs. 26 and 27. Ascend over rocky and mountainous land.
4.00	Spur, projects NW. Abrupt descent.
40.00	Set an iron post; 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked on brass cap, $\frac{1}{4}$ S 27 on W. half, S 26 on E. half, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
50.00	Foot of abrupt descent, bears E. and W. Gradual ascent over rolling land.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., in mound of stone and earth, for cor. of secs. 22-23-26 and 27, marked on brass cap, T 35 S S 22 in NW., R 19 W S 23 in NE., S 26 in SE. and S 27 in SW. quadrant, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. On account of natural obstacles it is impossible to set this post over 12 ins. in the ground,

## SUBDIVISIONS OF T.35 S., R.19 W.

CHAINS	
	Land, mountainous, and rolling.
	Soil, rocky, 3rd. rate.
	No timber.
	Mountainous land on 50.00 chs.
	July 4: At this cor. I set off $22^{\circ}54'N.$ , on decl. arc, and at 0h. 04m., p.m., l.m.t., observe the sun on the meridian the resulting lat. is $37^{\circ}45'N.$
	<hr/>
	N. $89^{\circ}59'E.$ , on a random line, bet. secs. 23 and 26.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.04	Intersect N. and S. line, 3 lks. N. of the cor. of secs. 23-24-25 and 26.
	Thence I run
	West, on a true line,
	Bet. secs. 23 and 26.
	Descend abruptly over rocky and mountainous land.
18.00	Foot of abrupt descent, bears NW. and SE.
	Gradual ascent over rolling land.
40.02	Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 23 on N.half, S 26 on S.half, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
80.04	The cor. of secs. 22-23-26 and 27.
	Land, rolling and mountainous.
	Soil, rocky, 3rd. rate.
	No timber.
	300.06 Mountainous land on 18.00 chs.
	<hr/>
	N. $0^{\circ}01'W.$ , bet. secs. 22 and 23.
	Ascend over rolling and rocky land.
5.00	Begin abrupt ascent, bears NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in.dia., in mound of stone

## SUBDIVISIONS OF T.35 S., R.19 W.

## CHAINS

- and earth, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 22 on W. half, S 23 on E. half, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- Pits impracticable.
- On account of natural obstacles it is impossible to set this post over 12 ins. in the ground.
- 56.78 Rocky ridge, bears NE. and SW.  
Abrupt descent.
- 69.00 Hollow, 100 ft. deep, course W.  
Abrupt ascent.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 14-15-22 and 23, marked on brass cap, T 35 S S 15 in NW.,  
R 19 W S 14 in NE.,  
S 23 in SE. and  
S 22 in SW. quadrant, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- Pits impracticable.
- Land, mountainous, and rolling.
- Soil, rocky, 3rd. and 4th. rate.
- No timber.
- Mountainous land on 75.00 chs.
- 
- East, on a random line, bet. secs. 14 and 23.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 80.00 Intersect N. and S. line, 3 lks. S. of the cor. of secs. 13-14-23 and 24.  
Thence L. run  
S. 89° 59' W., on a true line,  
Bet. secs. 14 and 23.
- Ancend over rocky and mountainous land.
- 2.50 Ridge, bears NE. and SW.  
Abrupt descent.
- 29.00 Hollow, 300 ft. deep, course SW.  
Abrupt ascent.

## SUBDIVISIONS OF T. 35 S., R. 19 W.

CHAINS	
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 14 on N.half, S 23 on S.half, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.of cor.
	Pits impracticable.
59.50	Ridge, bears NE. and SW.
	Abrupt descent along steep south slope.
80.00	The cor.of secs.14-15-22 and 23.
	Land, mountainous.
	Soil, rocky, 3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.

July 4, 1909

5.75	July 5: At 7h.04m., a.m., l.m.t., I set off $37^{\circ}46'N.$ , on lat. arc, $22^{\circ}51'N.$ , on decl.arc, and determine a meridian with the solar at the cor.of secs.14-15-22 and 23.
	Thence I run
	N. $0^{\circ}01'W.$ , betsecs.14 and 15.
	Ascend over rocky and mountainous land.
36.00	Rocky spur, projects NW.
	Abrupt descent.
40.00	Foot of abrupt descent, bears NW. and SE.
	Descend over rolling land, through scattering timber.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 15 on W.half, S 14 on E.half, from which
	A cedar, 10 ins.diam., bears N. $43^{\circ}30'W.$ , 77 lks.dist., marked $\frac{1}{4}$ S 15 BT.
	A cedar, 5 ins.diam., bears N. $65^{\circ}30'E.$ , 73 lks.dist., marked $\frac{1}{4}$ S 14 BT.
55.00	Hollow, 100 ft. deep, course NE.
	Ascend.
79.00	Rocky spur projects E.

## SUBDIVISIONS OF T. 35 S., R. 19 W.

CHAINS	
	Descend.
80.00	Set an iron post, 3 ft. long, 2 ins. dia. in mound of stone and earth, for cor. of secs. 10-11-14 and 15, marked on brass cap, T 35 S S 10 in NW., R 19 W S 11 in NE., S 14 in SE. and S 15 in SW. quadrant, from which. A cedar, 8 ins. diam., bears N. 32° E., 61 lks. dist., marked T 35 S R 19 W S 11 BT. A cedar, 9 ins. diam., bears S. 77° E., 5½ lks. dist., marked T 35 S R 19 W S 14 BT. A cedar, 8 ins. diam., bears S. 23° W., 36 lks. dist., marked T 35 S R 19 W S 15 BT. A cedar, 7 ins. diam., bears N. 79° W., 152 lks. dist., marked T 35 S R 19 W S 10 BT. On account of natural obstacles it is impossible to set this post over 15 ins. in the ground. Land, mountainous and rolling. Soil, rocky, 3rd. and 4th. rate. Timber, cedar and pinon. Mountainous land on 36.00 chs.
	N. 89° 59' E., on a random line, bet. secs. 11 and 14.
40.00	Set temp. 4 sec. cor.
79.98	Intersect N. and S. line, 14 lks. N. of the cor. of secs. 11-12-13 and 14. Thence I run N. 89° 55' W., on a true line, Bet. secs. 11 and 14. Ascend over rocky and mountainous land.
2.75	Ridge, bears NE. and SW. Abrupt descent.
26.00	Foot of abrupt descent., bears NE. and SW. Descend over rolling land.

## SUBDIVISIONS OF T. 35 S., R. 19 W.

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CHAINS	
38.99	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 11 on N. half, S 14 on S. half, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.  Pits impracticable.
49.00	Enter scattering timber.
70.00	Hollow, 100 ft. deep, course NE.  Ascend.
79.98	The cor. of secs. 10-11-14 and 15.  Land, rolling and mountainous.  Soil, rocky, 3rd. and 4th. rate.  Timber, cedar and piñon.  Mountainous land on 26.00 chs.
<hr/>	
	N. $0^{\circ}01'W.$ , bet. secs. 10 and 11.  Descend over rocky and rolling land, through scattering timber.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 10 on W. half, S 11 on E. half, from which extend two lines, 2 ft. apart, A. cedar, 10 ins. diam., bears N. $65^{\circ}30'W.$ , 141 lks. dist., marked $\frac{1}{4}$ S 10 BT.  No other trees within limits, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.  Leave timber.
65.00	Hollow, 75 ft. deep, course NE.  Ascend.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 2-3-10 and 11, marked on brass cap T 35 S S 3 in NW., R 19 W S 2 in NE., S 11 in SW. and S 10 in SE. quadrant, and raise a mound of stone, 2 ft. base,

## SUBDIVISIONS OF T. 35 S., R. 19 W.

## CHAINS

1½ ft. high, W. of cor.

Pits impracticable.

Land, rolling.

Soil, rocky, 2nd. and 3rd. rate.

Timber, cedar and pinon.

July 5: At this cor. I set off  $22^{\circ}49'N.$ , on decl. arc, and at 0h.04m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $37^{\circ}48'N.$

$S.89^{\circ}55'E.$ , on a random line, bet. secs. 2 and 11.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.06 Intersect N. and S. line, 9 lks. S. of the cor. of secs.

1-2-11 and 12.

Thence I run

$N.89^{\circ}59'W.$ , on a true line,

Bet. secs. 2 and 11.

Gradual ascent over rolling land, through dense undergrowth.

40.03 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}^{\circ}S. 2^{\circ}$  on N. half; S, 11 on S. half, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Pits impracticable.

80.06 The cor. of secs. 2-3-10 and 11.

Land, rolling.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush.

Land covered with dense undergrowth on 80.06 chs.

Knowing the line bet. secs. 2 and 3 will not close within limits on the N. bdy. of the Tp., I run

$N.0^{\circ}01'W.$ , on a true line,

Bet. secs. 2 and 3.

Ascend over rolling land, through dense undergrowth.

## SUBDIVISIONS OF T. 35 S., R. 19 W.

CHAINS	
39.00	Rocky spur, projects E. Descend abruptly over ledges, bearing E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 3 on W. half, S 2 on E. half, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
44.00	Foot of ledges, 150 ft. below spur. Enter bottom of hollow, 100 ft. deep, course E.
44.10	Wash, 40 lks. wide, 5 ft. deep, course E.
45.00	Leave hollow, begin ascent over rolling land.
46.84	Center of track of the San Pedro, Los Angeles and Salt Lake Railroad, bears N. 64° 56' E., and S. 64° 56' W.
47.63	Telegraph line, bears NE. and SW.
56.35	Road from Caliente and Pioche to Modena, bears NE. and SW.
81.25	Intersect S. bdy. of T. 34 S., R. 19 W., 6.75 chs. E. of the cor. of secs. 2-3-34 and 35, which is a trachyte stone, 7x8x5 ins. above ground, marked and witnessed as described by the surveyor general and 32.89 chs. west of the $\frac{1}{4}$ sec.cor.bet. secs. 2 and 35, which is a trachyte stone, 8x8x4 ins. above ground, marked and witnessed as described by the surveyor general. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for closing cor. of secs. 2 and 3, marked on brass cap, T 34 S S 34CCR 19 W S 35 on N. half, S 3 T 35 S S 2 R 19 W on S. half, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable. The length of the west half of the S. bdy. of sec. 35 is therefore 39.64 chs. I destroy all marks on the cor. of secs. 2-3-34 and 35 and on the $\frac{1}{4}$ sec.cor.betsecs. 2 and 35 that pertain to T. 35 S.

## SUBDIVISIONS OF T.35 S., R.19 W.

CHAINS	
	Land, mountainous and rolling.
	Soil, rocky, 2nd., 3rd. and 4th. rate.
	No timber.
	Undergrowth, sage brush.
	Mountainous land or land covered with dense undergrowth on 81.25 chs.
	July 5, 1909
	July 6: At 7h.04m., a.m., l.m.t., I set off $37^{\circ}43'N.$ , on lat. arc, $22^{\circ}45'N.$ , on decl. arc, and determine a meridian with the solar at the re-established stan.cor.of secs. 33 and 34, heretofore described on the 7th. Stan. Par. South, Thence I run
	$N.0^{\circ}02'W.$ , bet. secs. 33 and 34.
	Descend over rocky and mountainous land in bottom of hollow course north, through scattering timber.
26.00	Leave hollow,, begin abrupt ascent, bears NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 33 on W. half, S 34 on E. half, from which
	A cedar, 7 ins. diam., bears $S.38^{\circ}30'W.$ , 23 lks. dist., marked $\frac{1}{4}$ S 33 BT.
	No other trees within limits and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	This cor. is set on top of rocky ridge, bearing NE. and SW. Descend.
44.00	Hollow, 75 ft. deep, course NE.
	Ascend.
61.45	Rocky ridge, bears NE. and SW.
	Abrupt descent.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., in mound of stone and earth, for cor.of secs. 27-28-33 and 34, marked on brass

## SUBDIVISIONS OF T. 35 S., R. 19 W.

## CHAINS

cap T 35 S S 28 in NW.,  
 R 19 W S 27 in NE.,  
 S 34 in SE. and  
 S 33 in SW. quadrant. Impossible to set post 24 ins. in the  
 ground.  
 A cedar, 6 ins. diam., bears N. 72° 30' E., 68 lks. dist.,  
 marked T 35 S R 19 W S 27. BT.  
 A cedar, 6 ins. diam., bears S. 80° 30' E., 75 lks. dist.,  
 marked T 35 S R 19 W S 34. BT.  
 A cedar, 10 ins. diam., bears S. 85° W., 246 lks. dist.,  
 marked T 35 S R 19 W S 33. BT.  
 A cedar, 6 ins. diam., bears N. 19° W., 25 lks. dist.,  
 marked T 35 S R 19 W S 28. BT.  
 Soil, rocky, 3rd. and 4th. rate.  
 Timber, cedar and pinon.  
 Mountainous land on 80.00 chs.

East, on a random line, bet. secs. 27 and 34.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.98 Intersect N. and S. line, 12 lks. S. of the cor. of secs.  
 26-27-34 and 35.  
 Thence I run  
 S. 89° 55' W., on a true line,  
 Bet. secs. 27 and 34.  
 Descend over rocky and mountainous land.  
 9.00 Hollow, 100 ft. deep, course NE.  
 Ascend.  
 39.99 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground,  
 for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 27 on N. half,  
 S 34 on S. half, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$   
 ft. high, N. of cor.  
 Pits impracticable.  
 40.50 Spur, projectin NE.  
 Descend.

## SUBDIVISIONS OF T.35 S., R.19 W.

## CHAINS

- 79.98 The cor. of secs. 27-28-33 and 34.  
Land, mountainous.  
Soil, rocky, 3rd. rate.  
No timber.  
Mountainous land on 79.98 chs.  
  
N. 0°02' W., bet. secs. 27 and 28.  
Descend over rocky and mountainous land.  
2.50 Foot of abrupt descent, bears NE. and SW.  
Over level land.  
25.00 Begin abrupt ascent, bears NW. and SE.  
38.00 Rocky ridge, bears NW. and SE.  
Abrupt descent.  
Enter scattering timber.  
40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground,  
for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 28 on W. half,  
S 27 on E. half, from which  
A cedar, 10 ins. diam., bears N. 42° W., 51 lks. dist.,  
marked  $\frac{1}{4}$  S 28 BT.  
A cedar, 8 ins. diam., bears N. 22° E., 206 lks. dist.,  
marked  $\frac{1}{4}$  S 27 BT.  
50.00 Foot of abrupt descent, bears E. and W.  
Descend over rolling land.  
80.00 Set an iron post, 3 ft. long, 2 ins. dia., in mound of stone and  
earth, for cor. of secs. 21-22-27 and 28, marked on brass cap  
T 35 S S 21 in NW.,  
R. 19 W S 22 in NE.,  
S 27 in SE. and  
S 28 in SW. quadrant, from which  
A cedar, 8 ins. diam., bears N. 43° E., 90 lks. dist.,  
marked T 35 S R 19 W S 22 BT.  
A cedar, 8 ins. diam., bears S. 78° E., 121 lks. dist.,  
marked T 35 S R 19 W S 27 BT.

## SUBDIVISIONS OF T. 35 S., R. 19 W.

## CHAINS

A cedar, 10 ins. diam., bears S. 56° W., 222 lkm. dist., marked T 35 S R 19 W S 28 BT.

A cedar, 14 ins. diam., bears N. 85° W., 258 lkm. dist., marked T 35 S R 19 W S 21 BT.

On account of natural obstacles it is impossible to set this post over 12 ins. in the ground.

Land, mountainous, level and rolling.

Soil, rocky, 3rd. and 4th. rate.

Timber, cedar and pinon.

Mountainous land on 27.50 chs.

July 6: At this cor. I set off 22° 43' N., on decl. arc, and at 0h.04m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 37° 45' N.

N. 89° 55' E., on a random line, bet. secos. 22 and 27.

40.00 Set temp. & sec.cor.

79.90 Intersect N. and S. line, 5 lkm. N. of the cor. of secn.  
22-23-26 and 27.

Thence I run

S. 89° 57' W., on a true line,

Bet. secos. 22 and 27.

Ascend over rolling land.

9.50 Begin abrupt ascent, bears NW. and SW.

39.05 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec.cor., marked on brass cap,  $\frac{1}{2}$  S 22 on N. half,  
S 27 on S. half, from which

A cedar, 6 ins. diam., bears N. 27° W., 193 lkm. dist., marked  $\frac{1}{2}$  S 22 BT.

A cedar, 7 ins. diam., bears S. 71° 30' W., 230 lkm. dist., marked  $\frac{1}{2}$  S 27 BT.

41.00 Enter scattering timber.

47.57 Ridge, bears NW. and SW.

Abrupt descent.

SUBDIVISIONS OF T. 35 S., R. 19 W.

## CHAINS

- 54.00 Hollow, 125 ft. deep, course N.  
Abrupt ascent.
- 58.80 Rocky spur, projects N.  
Abrupt descent.
- 70.00 Foot of abrupt descent, bears NE. and SW.  
Gradual descent over rolling land.
- 79.90 The cor. of secs. 21-22-27 and 28.  
Land, rolling and mountainous.  
Soil, rocky, 3rd. and 4th. rate.  
Timber, cedar and pinon.  
Mountainous land on 60.50 chs.

N. 0°02'W., bet. secs. 21 and 22.

Descend over rolling land, through sparse undergrowth and scattering timber.

- 6.00 Leave timber.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 21 on W. half, S 22 on E. half, dig pit, 18x18x12 ins., N. and S. of post 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 15-16-21 and 22, marked on brass cap, T 35 S S 16 in NW., R 19 W S 15 in NE., S 22 in SE. and S 21 in SW. quadrant, dig pit, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 6 ft. base, 2 ft. high, W. of cor.
- Land, rolling.
- Soil, rocky, 3rd. rate.
- Timber, cedar and pinon.
- Undergrowth, sage brush.

## SUBDIVISIONS OF T. 35 S., R. 19 W.

CHAINS	
	N.89°57' E., on a random line, bet. secs. 15 and 22.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.98	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 14-15-22 and 23. Thence I run S.89°59' W., on a true line, Bet. secs. 15 and 22.
5.50	Descend abruptly along steep, rocky south slope, Enter scattering timber.
20.50	Foot of abrupt descent, bears NE. and SW.
	Descend over rolling land.
24.00	Leave timber.
39.99	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{2}$ S 15 on N. half, S 22 on S. half, and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
79.98	The cor. of secs. 15-16-21 and 22. Land, mountainous and rolling. Soil, rocky, 3rd. and 4th. rate. Timber, cedar and pinon. Mountainous land on 20.50 chs.
	July 6, 1909
	July 7: At 7h.05m., a.m., 1.m.t., I set off 37°46' N., on lat. arc, 22°39' N., on decl.arc, and determine a meridian with the solar at the cor. of secs. 15-16-21 and 22. Thence I run N.0°02' W., bet. secs. 15 and 16. Gradual ascent over rolling land, through sparse undergrowth.
29.00	Enter scattering timber.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{2}$ S 16 on W. half,

## SUBDIVISIONS OF T. 35 S., R. 19 W.

CHAINS	
	S 15 on E. half, from which A cedar, 15 ins. diam., bears N. 40° 30' E., 123 lks. dist., marked $\frac{1}{4}$ S 15 BT.
	A cedar, 8 ins. diam., bears S. 33° W., 118 lks. dist., marked $\frac{1}{4}$ S 16 BT.
69.00	Ridge, bears NE. and SW. Descend.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 9-10-15 and 16, marked on brass cap T 35 S S 9 in NW., R 19 W S 10 in NE., S 15 in SE., and S 16 in SW. quadrant, from which A cedar, 18 ins. diam., bears S. 33° W., 118 lks. dist., marked T 35 S R 19 W S 16 BT. A cedar, 10 ins. diam., bears N. 11° W., 127 lks. dist., marked T 35 S R 19 W S 9 BT. No other trees within limits and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, rocky, 3rd. rate. Timber, cedar and pinon. Undergrowth, sage brush.
	N. 89° 59' E., on a random line, bet. secs. 10 and 15.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect N. and S. line, 3 lks. N. of the cor. of secs. 10-11-14 and 15. Thence I run West, on a true line, Bet. secs. 10 and 15. Ascend over broken sandstone ledges through scattering timber.

## SUBDIVISIONS OF T. 35 S., R. 19 W.

CHAINS	
24.70	Rocky ridge, bears N. and S. Abrupt descent.
40.04	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 10 on N. half, S 15 on S. half, from which A cedar, 17 ins. diam., bears N. 71° E., 108 lks. dist., marked $\frac{1}{4}$ S 10 BT. A cedar, 7 ins. diam., bears S. 6° 30' W., 90 lks. dist., marked $\frac{1}{4}$ S 15 BT.
52.00	Hollow, 100 ft. deep, course NE. Abrupt ascent.
71.50	Rocky ridge, bears NE. and SW. Abrupt descent.
76.50	Hollow, 75 ft. deep, course N. Abrupt ascent.
80.08	The cor. of secs. 9-10-15 and 16. Land, mountainous. Soil, rocky, 3rd. and 4th. rate. Timber, cedar and pinon. Mountainous land on 80.08 chs.
	N. 0° 02' W., bet. secs. 9 and 10. Descend over rocky and mountainous land.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 9 on W. half, S 10 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
43.00	Hollow, 75 ft. deep, course NW. Ascend.
51.00	Spur, projects NW. Abrupt descent.
65.00	Enter bottom of wide hollow, 100 ft. deep, course NE. Over level land.

## SUBDIVISIONS OF T.35 S., R.19 W.

CHAINS	
70.10	Wash, 25 lns. wide, 10 ft. deep, course NE.
73.60	Center of track of San Pedro, Los Angeles and Salt Lake Railroad, on a curve, NE. and SW.
75.62	Telegraph line, bears NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 in. dia., 24 in. in the ground for cor. of secos. 3-4-9 and 10, marked on brass cap T 35 S S 4 in NW., R 19 W S 3 in NE., S 10 in SE., S 9 in SW. quadrant, dig pitn, 18x18x12 in., in each sec., 5 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, mountainous and level. Soil, rocky, 3rd. rate on 65.00 chs. balance, loam, 1st. rate. No timber. Mountainous land on 65.00 chs. July 7: At this cor. I set off $22^{\circ}37'N.$ , on decl. arc, and at 9h.05m., p.m., 1.m.t., observe the sun on the meridian the resulting lat is $37^{\circ}48'N.$
40.00	East, on a random line, bet. secos. 3 and 10.
80.10	Set temp. of sec. cor. Intersect N. and S. line, 7 lns. N. of the cor. of secos. 2-3-10 and 11. Thence I run N. $29^{\circ}57'W.$ , on a true line, Bet. secos. 3 and 10.
30.00	Ascend over rolling land, through sparse undergrowth. Sput, projects NE. Descend.
35.00	Hollow, 50 ft. deep, course NW. Ascend.

## SUBDIVISIONS OF T.35 S., R.19 W.

CHAINS	
39.00	Ridge, bears NE. and SW. Descend.
40.05	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 3 on N. half, S 10 on S. half, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
50.00	Hollow, 75 ft. deep, course N. Ascend.
59.00	Spur, projects N. Abrupt descent.
71.00	Enter bottom of wide hollow, 100 ft. deep, course NE. Over level land.
72.00	Wash, 25 lks. wide, 10 ft. deep, course NE.
73.60	Center of track of San Pedro, Los Angeles and Salt Lake Railroad, on curve, NE. and SW.
74.62	Telegraph line, bears NE. and SW.
76.75	Wash, 15 lks. wide, 10 ft. deep, course SE.
80.10	The cor. of secs. 3-4-9 and 10. Land, rolling mountainous and level. Soil, rocky on 71.00 chs., 3rd. rate. balance, loam, 1st. rate. No timber. Undergrowth, sage brush. Mountainous land on 12.00 chs.
	Knowing the line bet. secs. 3 and 4 will not close within limits on the N. bdy. of the Tp., I run N. 0°02'W., on a true line, Bet. secs. 3 and 4. In hollow, course NE., through sparse undergrowth.
1.05	Wash, 20 lks. wide, 10 ft. deep, course SE.
2.00	Road from Caliente to Modena, bears NE. and SW.
10.00	Road from Pioche to Modena, bears NE. and SW.

## SUBDIVISIONS OF T.35 S., R.19 W.

CHAINS	
14.00	Leave hollow, begin ascent over rolling land.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 4 on W. half, S. 3 on E. half, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
81.30	Intersect S. bdy. of T.34 S., R.19 W., 6.43 chs. E. of the cor. of secs. 3-4-33 and 34, which is a trachyte stone, 6x8x6 ins. above ground, marked and witnessed as described by the surveyor general. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for closing cor. of secs. 3 and 4, marked on brass cap CC T 34 S S 33 R 19 W S 34 on N. half, and T 35 S S 4 R 19 W S 3 on S. half, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable. I destroy all marks on the cor. of secs. 3-4-33 and 34, that pertain to T.35 S. Land, level and rolling. Soil, loam, 1st. and 2nd. rate. No timber. Undergrowth, sage brush.

July 7, 1909

July 8: At 7h.05m., a.m., l.m.t., I set off  $37^{\circ}43'N.$ , on lat.arc,  $22^{\circ}33'N.$ , on decl.arc, and determine a meridian with the solar at the re-established stan.cor. of secs. 32 and 33, heretofore described on the 7th. Stan. Par. South.

Thence I run

N.  $0^{\circ}03'W.$ , bet. secs. 32 and 33.

Descend through heavy timber.

## SUBDIVISIONS OF T.35 S., R.19 W.

CHAINS	
18.50	Hollow, 100 ft. deep, course NE. Ascend.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 32 on W. half, S 33 on E. half, from which A cedar, 8 ins. diam., bears N.69°W., 70 lks. dist., marked $\frac{1}{4}$ S 32 BT. A cedar, 5 ins. diam., bears N.75°E., 113 lks. dist., marked $\frac{1}{4}$ S 33 BT.
70.00	Leave timber, begin abrupt ascent over rocky and broken land, bearing NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 28-29-32 and 33, marked on brass cap, T 35 S S 29 in NW., R 19 W S 28 in NE., S 33 in SE. and S 32 in SW. quadrant, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling and mountainous. Soil, rocky, 3rd. and 4th. rate. Timber, cedar and pinon. Mountainous land or heavily timbered land on 80.00 chs.
40.00	East, on a random line, bet. secs. 28 and 33. Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect N. and S. line, 9 lks. S. of the cor. of secs. 27-28-33 and 34. Thence I run S.89°56'W., on a true line, Bet. secs. 28 and 33.
3.00	Descend over mountainous land, through dense undergrowth. Foot of descent, bears NE. and SW. Gradual descent over rolling land.
37.00	Enter scattering timber.

## SUBDIVISIONS OF T. 35. S., R. 19 W.

## CHAINS

- 40.04 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 28 on N.half, S 33 on S.half, from which .  
A cedar, 16 ins.diam., bears N.87°30'E., 148 lks.dist., marked  $\frac{1}{4}$  S 28 BT.  
A cedar, 28 lks.dist., bears S.61°E., 75 lks.dist., marked  $\frac{1}{4}$  S 33 BT.
- 76.00 abrupt Begin ascent over broken and rocky land, bears NE. and SW.  
Leave timber.
- 80.08 The cor.of secs. 28-29-32 and 33.  
Land, rolling and mountainous.  
Soil, rocky, 3rd. and 4th. rate.  
Timber, cedar and pinon.  
Undergrowth, sage brush.  
Mountainous land on 7.00 chs.
- 
- N.0°03'W., bet.secs. 28 and 29.  
Descend abruptly over broken and rocky land.
- 4.90 Hollow, 200 ft. deep, course NE.  
Abrupt ascent.  
Enter scattering timber.
- 11.00 Spur, projects NE.  
Descend.
- 14.00 Hollow, 75 ft. deep, course NW.  
Abrupt ascent.
- 17.00 Spur, projects NW.  
Descend.
- 28.00 Hollow, 75 ft. deep, course NE.  
Abrupt ascent.
- 32.00 Spur, projects NW.  
Descend.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 29 on W.half,

## SUBDIVISIONS OF T. 35 S., R. 19 W.

CHAINS	
	S 28 on E. half, from which A cedar, 6 ins. diam., bears S. 59° 30' W., 9 lks. dist., marked $\frac{1}{4}$ S 29 BT. No other trees within limits and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Leave mountainous land, bears NE. and SW. Descend over rolling land.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 20-21-28 and 29, marked on brass cap T 35 S S 20 in NW., R 19 W S 21 in NE., S 28 in SE. and S. 29 in SW. quadrant, from which A cedar, 7 ins. diam., bears N. 73° E., 173 lks. dist., marked T 35 S R 19 W S 21 BT. A cedar 6 ins. diam., bears S. 81° E., 132 lks. dist., marked T 35 S R 19 W S 28 BT. A cedar 5 ins. diam., bears S. 65° W., 250 lks. dist., marked T 35 S R 19 W S 29 BT. A cedar, 6 ins. diam., bears N. 40° W., 252 lks. dist., marked T 35 S R 19 W S 20 BT. Land, mountainous and rolling. Soil, rocky, 3rd. and 4th. rate. Timber, cedar and pinon. Mountainous land on 40.00 chs. July 8: At this cor. I set off 22° 50' N., on decl. arc, and at 0h. 05m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 37° 45' N.
	N. 89° 56' E., on a random line, bet. secs. 21 and 28.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect N. and S. line, 3 lks. N. of the cor. of secs. 21-22-27 and 28.

## SUBDIVISIONS OF T. 35 S., R. 19 W.

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CHAINS	
	S.89°57'W., on a true line, Bet. secs. 21 and 28.
	Descend over rolling land, through scattering timber.
40.03	Set an iron post, 3 ft. long, 1 in. diam., in mound of stone and earth, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 21 on N. half, S 28 on S. half, from which A cedar, 8 ins. diam., bears N.85°E., 94 lks. dist., marked $\frac{1}{4}$ S 21 BT. A cedar, 14 ins. diam., bears S.17°E., 99 $\frac{1}{2}$ lks. dist., marked $\frac{1}{4}$ S 28 BT.
	On account of natural obstacles it is impossible to set this post over 12 ins. in the ground.
80.06	The cor. of secs. 20-21-28 and 29. Land, rolling. Soil, solid granite ledge, covered with a thin layer of sand 4th. rate. Timber, cedar and pinon.
	N.0°03'W., bet. secs. 20 and 21. Over rolling land, through scattering timber.
31.00	Leave timber. Enter scattering undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 20 on W. half, S 21 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
63.00	Begin abrupt ascent, bears NE. and SW.
72.45	Rocky spur, projects NE. Abrupt descent.
75.00	Foot of abrupt descent, bears NE. and SW.
	Descend over rolling land, through scattering timber.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 16-17-20 and 21, marked on brass

## SUBDIVISIONS OF T. 35 S., R. 19 W.

CHAINS	
	cap, T 35 S S 17 in NW.,
	R 19 W S 16 in NE.,
	S 21 in SE. and
	S 20 in SW. quadrant, from which
	A cedar, 12 ins. diam., bears S. 89° E., 155 lks. dist., marked T 35 S R 19 W S 21 BT.
	A cedar, 15 ins. diam., bears S. 40° 30' W., 108 lks. dist., marked T 35 S R 19 W S 20 BT.
	No other trees within limits and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
	Land, rolling and mountainous.
	Soil, rocky, 3rd. and 4th. rate.
	Timber, cedar and pinon.
	Undergrowth, sage brush.
	Mountainous land on 12.00 chs.
	 N. 89° 57' E. on a random line, bet. secs. 16 and 21.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect N. and S. line, at the cor. of secs. 15-16-21 and 22. Thence I run
	S. 89° 57' W., on a true line, Bet. secs. 16 and 21.
	Descend over rolling land, through sparse undergrowth.
40.02	Set an iron post, 3 ft. long, 1 in. dia., in mound of earth, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 16 on N. half, S 21 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
	On account of natural obstacles it is impossible to set this post over 15 ins. in the ground.
77.00	Enter scattering timber.
80.04	The cor. of secs. 16-17-20 and 21.

SUBDIVISIONS OF T. 35 S., R. 19 W.

CHAINS

Land, rolling.  
Soil, rocky, 3rd. and 4th. rate.  
Timber, cedar and pinon.  
Undergrowth sage brush.

July 8, 1909

July 9: At 7h.05m., a.m., l.m.t., I set off  $37^{\circ}46' m.$ , on lat. arc,  $22^{\circ}26' N.$ , on decl. arc, and determine a meridian with the solar at the cor. of secs. 16-17-20 and 21.

Thence I run

N.  $0^{\circ}03' W.$ , bet. secs. 16 and 17.

Descend over rolling land, through sparse undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 17 on W. half, S 16 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

48.00 Enter bottom of wide hollow, 100 ft. deep, course NE.

Over level land, through dense undergrowth.

51.00 Wash, 50 lks. wide, 15 ft. deep, course NE.

56.30 Center of track of San Pedro, Los Angeles and Salt Lake Railroad, bears N.  $39^{\circ}31' N.$ , and S.  $39^{\circ}31' W.$ .

57.48 Telegraph line, bears NE. and SW.

68.50 Road from Caliente to Modena, bears NE. and SW.

72.00 Leave hollow, begin ascent over rolling land.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 8-9-16 and 17, marked on brass cap

T 35 S 8 in NW.,

R 19 W S 9 in NE.,

S 16 in SE. and

S 17 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,

$5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling and level.

## SUBDIVISIONS OF T.35 S., R.19 W.

## CHAINS

	Soil, rocky and loam, 1st. and 2nd. rate.
	No timber.
	Undergrowth, greasewood and sage brush.
	Dense undergrowth on 32.00 chs.
	N. 89° 57' E., on a random line, bet. secs. 9 and 16.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.02	Intersect N. and S. line, 12 lks. N. of the cor. of secs. 9-10-15 and 16.
	Thence I run
	N. 89° 58' W., on a true line,
	Bet. secs. 9 and 16.
	Ascend over rocky and mountainous land, through scattering timber.
6.00	Rocky spur, projects N.
	Descend over broken and rocky land.
23.00	Leave timber.
40.01	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 9 on N. half, S 16 on S. half, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
55.00	Enter bottom of wide hollow, 100 ft. deep, course NE.
	Over level land, through dense undergrowth.
59.25	Wash, 25 lks. wide, 8 ft. deep, course NE.
60.35	Center of track of San Pedro, Los Angeles and Salt Lake Railroad, bears N. 39° 31' E. and S. 39° 31' W.
60.70	Center of track of Tomas Siding, bears N. 39° 31' E., and S. 39° 31' W.
61.27	Telegraph line, bears NE. and SW.
71.50	Road from Caliente to Modena, bears NE. and SW.
73.00	Leave hollow, begin ascent over rolling land.
80.02	The cor. of secs. 8-9-16 and 17.

## SUBDIVISIONS OF T.35 S., R.19 W.

CHAINS	
	Land, mountainous, level and rolling.
	Soil, rocky on 55.00 chs., 3rd. rate. balance, loam, 1st. rate.
	Timber, cedar and pinon.
	Undergrowth, greasewood and sage.
	Mountainous land or land covered with dense undergrowth on 80.02 chs.
	<hr/>
	N. 0°03'W., bet. secs. 8 and 9.
	Ascend over rolling land, through dense undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 8 on W.half, S 9 on E.half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W.of cor.
75.00	Begin descent into hollow, course E.
80.00	Bottom of hollow, 50 ft. deep, course E. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor.of secs. 4-5-8 and 9, marked on brass cap T 35 S 8 S 5 in NW., R 19 W S 4 in NE., S 9 in SE., and S 8 in SW.quadrant, dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W.of cor. Land, rolling. Soil, sandy loam, 2nd. rate. No timber. Undergrowth, sage brush and greasewood. Dense undergrowth on 80.00 chs. July 9: At this cor. I set off 22°23'N., on decl.arc, and at 0h.05m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 37°48'N.

## SUBDIVISIONS OF T. 35 S., R. 19 W.

CHAINS	S. 89° 58' E., on a random line, bet. secs. 4 and 9.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect N. and S. line, 3 lks. N. of the cor. of secs. 3-4-9 and 10. Thence I run N. 89° 58' W., on a true line, Bet. secs. 4 and 9.
	In bottom of hollow, course NE., over level land.
1.50	Road from Caliente to Modena, bears NE. and SW.
5.50	Leave hollow, ascend over rolling land, through dense undergrowth.
40.02	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 4 on N. half, S 9 on S. half, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
59.00	Enter hollow, course N.E. from west. Ascend gradually along bottom of hollow.
67.00	Wash, 25 lks. wide, 7 ft. deep, course NE.
70.25	Same wash, 25 lks. wide, 10 ft. deep, course SE.
76.50	Same wash, 25 lks. wide, 15 ft. deep, course NE.
78.95	Same wash, 40 lks. wide, 15 ft. deep, course SE.
80.04	The cor. of secs. 4-5-8 and 9. Land, level and rolling. Soil, sandy loam, 2nd. rate. No timber. Undergrowth, greasewood and sage brush. Dense undergrowth on 74.54 chs.

Knowing the line bet. secs. 4 and 5 will not close within limits on the N. bdy. of the Tp., I run

N. 0° 03' W., on a true line,

Bet. secs. 4 and 5.

In bottom of hollow, course E., over level land, through dense undergrowth.

## SUBDIVISIONS OF T. 35 S., R. 19 W.

CHAINS	
0.40	Wash, 40 lks.wide, 15 ft. deep, course SE.
6.00	Leave hollow, course E., begin ascent over rolling land.
12.80	Road from Pioche to Modena, bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 5 on W. half, S 4 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
50.00	Enter scattering timber, bears E. and W.
81.19	Intersect S. bdy. of T. 34 S., R. 19 W., 6.36 chs. E. of the cor. of secs. 4-5-32 and 33, which is a trachyte stone, 6x10x4 ins. above the ground, marked and witnessed as described by the surveyor general. <i>cl. 36</i> Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for closing cor. of secs. 4 and 5, marked on brass cap CC-T 34 S S 32 CR 19 W S 33 on N. half, and CC-T 35 S S 5 R 19 W S 4 on S. half, from which A cedar, 16 ins. diam., bears S. 46° E., 73 lks. dist., marked T 35 S R 19 W S 4 BT. A cedar, 8 ins. diam., bears S. 62° W., 255 lks. dist., marked T 35 S R 19 W S 5 BT. I destroy all marks on the cor. of secs. 4-5-32 and 33, that pertain to T. 35 S.
	Land, level and rolling.
	Soil, loam, 1st. rate on 50.00 chs. balance, rocky, 3rd. rate.
	Timber, cedar and pinon.
	Undergrowth, greasewood and sage.
	Land covered with dense undergrowth on 50.00 chs.

July 9, 1909

## SUBDIVISIONS OF T.35 S., R.19 W.

## CHAINS

July 10: At 7h.05m., a.m., l.m.t., I set off  $37^{\circ}45'N.$ , on lat. arc,  $22^{\circ}18'N.$ , on decl. arc, and determine a meridian with the solar at the re-established stan.cor. of secs. 31 and 32, heretofore described on the 7th. Stan. Par. South.  
 Thence I run  
 $N.0^{\circ}03'W.$ , bet. secs. 31 and 32.  
 Descend in bottom of wide hollow, course NW., through scattering timber, over mountainous land.

8.00 Leave hollow, begin abrupt ascent over rocky land, bearing NW. and SE.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 31 on W. half, S 32 on E. half, from which  
 A cedar, 6 ins. diam., bears S.31°E., 85 lks. dist., marked  $\frac{1}{4}$  S 32 BT.  
 A cedar, 6 ins. diam., bears N.59°W., 81 lks. dist., marked  $\frac{1}{4}$  S 31 BT.

47.00 Rocky ridge, bears NW. and SE.  
 Descend.

56.00 Begin abrupt descent, bears NW. and SE.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 29-30-31 and 32, marked on brass cap  
 T 35 S S 30 in NW.,  
 R 19 W S 29 in NE.,  
 S 32 in SE. and  
 S 31 in SW. quadrant, from which  
 A cedar, 5 ins. diam., bears N.5°E., 57 lks. dist., marked  $\frac{1}{4}$  T 35 S R 19 W S 29 BT.  
 A cedar, 5 ins. diam., bears S.50°30'W., 35 lks. dist., marked T 35 S R 19 W S 31 BT.  
 A cedar, 6 ins. diam., bears N.79°W., 106 lks. dist., marked T 35 S R 19 W S 30 BT.

No other trees within limits and raise a mound of stone,

## SUBDIVISIONS OF T. 35 S., R. 19 W.

## CHAINS

2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd. and 4th. rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

East, on a random line, bet. secs. 29 and 32.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.06 Intersect N. and S. line, 5 lks. S. of the cor. of secs.  
28-29-32 and 33.

Thence I run

S.  $89^{\circ}58'W.$ , on a true line,

Bet. secs. 29 and 32.

Ascend abruptly over rocky and mountainous land.

8.00 Rocky Ridge, bears N. and S.

Abrupt descent.

Enter scattering timber.

15.00 Hollow, 250 ft. deep, course NE.

Abrupt ascent, over broken sandstone ledges.

34.40 Rocky ridge, bears NE. and SW.

Abrupt descent.

40.03 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground,  
for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 29 on N. half,  
S 32 on S. half, from which

A cedar, 8 ins. diam., bears S.  $70^{\circ}E.$ , 68 lks. dist.,  
marked  $\frac{1}{4}$  S 32 BT.

A cedar, 8 ins. diam., bears N.  $45^{\circ}30'E.$ , 91 lks. dist.,  
marked  $\frac{1}{4}$  S 29 BT.

50.50 Hollow, 250 ft. deep, course NE.

Abrupt ascent.

73.00 Rocky spur projects N.

Abrupt descent.

78.00 Hollow, 150 ft. deep, course N.

## SUBDIVISIONS OF T. 35 S., R. 19 W.

CHAINS	
	Abrupt ascent.
80.06	The cor. of secs. 29-30-31 and 32. Land, mountainous. Soil, rocky, 3rd. and 4th. rate. Timber, cedar and pinon. Mountainous land on 80.06 chs. July 10: At this cor. I set off $22^{\circ}18'N.$ , on decl. arc, and at 0h.05m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $37^{\circ}44'N.$
	West, on a random line, bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.91	Intersect W.bdy. of Tp., 5 lks.S. of the cor. of the of secs. 25-30-31 and 36, heretofore described. Thence I run $S.89^{\circ}58'E.$ , on a true line, Bet. secs. 30 and 31. Ascend over rolling land, through dense undergrowth.
19.00	Enter scattering timber.
39.91	Set an iron post, 3 ft. long, 1 in. dia., in mound of stone and earth, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 30 on N. half, S 31 on S.half, from which A cedar, 24 ins. diam., bears N. $39^{\circ}E.$ , 18 lks.dist., marked $\frac{1}{4}$ S 30 BT. A cedar, 10 ins. diam., bears S. $66^{\circ}E.$ , 83 lks.dist., marked $\frac{1}{4}$ S 31 BT. On account of natural obstacles it is impossible to set this post over 12 ins. in the ground.
42.00	Begin ascent over mountainous land, bearing NW. and SE.
45.00	Ridge, bears NW. and SE.
	Descend.
56.00	Hollow, 100 ft. deep, course NW.
	Abrupt ascent.
72.25	Foot of perpendicular granite ledges, bearing N. and S.

## SUBDIVISIONS OF T. 35 S., R. 19 W.

## CHAINS

- 73.00 Rocky ridge, bears N. and S.  
Abrupt descent.
- 79.91 The cor. of secs. 29-30-31 and 32.  
Land, mountainous and rolling.  
Soil, rocky, 3rd. and 4th. rate.  
Timber, cedar and pinon.  
Undergrowth, sage brush.  
Mountainous land or land covered with dense undergrowth  
on 79.91 chs.

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N. 0° 03' W., bet. secs. 29 and 30.

Descend over rocky and mountainous land, through scattering timber.

- 22.00 Foot of mountainous land, bears NW. and SE.  
Descend over rolling land.
- 40.00 Set an iron post, 3 ft. long, 1 ins. dia., in mound of stone and earth, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 30 on W. half, S 29 on E. half, from which

A cedar, 12 ins. diam., bears S. 51° W., 25 lks. dist.,  
marked  $\frac{1}{4}$  S 30 BT.

A cedar, 5 ins. diam., bears N. 44° E., 58 lks. dist.,  
marked  $\frac{1}{4}$  S 29 BT.

On account of natural obstacles it is impossible to set this post over 12 ins. in the ground.

- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 19-20-29 and 30, marked on brass cap,  
T 35 S S 19 in NW.,  
R 19 W S 20 in NE.,  
S 29 in SE., and  
S 30 in SW. quadrant, from which

A cedar, 14 ins. diam., bears N. 45° 30' E., 292 lks. dist.,  
marked T 35 S R 19 W S 20 BT.

A cedar, 7 ins. diam., bears S. 32° 30' E., 48 lks. dist.,  
marked T 35 S R 19 W S 29 BT.

## SUBDIVISIONS OF T.35 S., R.19 W.

## CHAINS

- A cedar, 6 ins. diam., bears S.40°W., 65 lks. dist., marked T 35 S R 19 W S 30 BT.
- A cedar, 7 ins. diam., bears N.42°30'W., 105 lks. dist., marked T 35 S R 19 W S 19 BT.
- Land, rolling and mountainous.
- Soil, granite ledges covered with a thin layer of sand, 3rd. and 4th. rate.
- Timber, cedar and pinon.
- Mountainous land on 22.00 chs.
- 
- N.89°58'E., on a random line, bet. secs. 20 and 29.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.04 Intersect N. and S. line, 3 lks. N. of the cor. of secs. 20-21-28 and 29.
- Thence I run  
S.89°59'W., on a true line,  
Bet. secs. 20 and 29.
- Descend over rolling land, through dense undergrowth and scattering timber.
- 40.02 Set an iron post, 3 ft. long, 1' in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 20 on N. half, S 29 on S. half, from which  
A cedar, 5 ins. diam., bears S.22°W., 18 lks. dist., marked  $\frac{1}{4}$  S 29 BT.
- A cedar, 10 ins. diam., bears N.34°30'W., 103 lks. dist., marked  $\frac{1}{4}$  S 20 BT.
- 80.04 The cor. of secs. 19-20-29 and 30.  
Land, rolling.  
Soil, rocky, 3rd. and 4th. rate.  
Timber, cedar and pinon.  
Undergrowth, sage brush.  
Land covered with dense undergrowth on 80.04 chs.

## SUBDIVISIONS OF T.35 S., R.19 W.

## CHAINS

- N. $89^{\circ}56'W.$ , on a random line, bet. secs. 19 and 30.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.82 Intersect W. bdy. of Tp., 5 lks. S. of the cor. of secs. 19-24-25 and 30, heretofore described.
- Thence I. min S. $89^{\circ}56'E.$ , on a true line,
- Bet. secs. 19 and 30.
- Descend over rolling and rocky land, through dense undergrowth.
- 7.00 Enter bottom of hollow, 100 ft. deep, course NE.
- Over level land.
- 10.70 Road from Caliente to Modena, bears NE. and SW.
- 15.00 Telegraph line, bears NE. and SW.
- 16.15 Center of track of the San Pedro, Los Angeles and Salt Lake Railroad, bears N. $47^{\circ}13'E.$ , and S. $47^{\circ}13'W.$
- 17.00 Wash, 20 lks. wide, 6 ft. deep, course NE.
- 17.50 Leave hollow, begin ascent over rolling land.
- 39.82 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$ . S. 19 on N. half, S. 30 on S. half, dig pits, 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 50.00 Enter scattering timber.
- 79.82 The cor. of secs. 19-20-29 and 30.
- Land, rolling and level.
- Soil, rocky 3rd. rate, on 69.32 chs.
- balance, loam, 1st. rate.
- Timber, cedar and pinon.
- Undergrowth, sage brush and greasewood.
- Dense undergrowth on 79.82 chs..

July 10, 1909

## SUBDIVISIONS OF T. 35 S., R. 19 W.

## CHAINS

- July 11: At 7h.05m., a.m., l.m.t., I set off  $37^{\circ}45'N.$  on lat. arc,  $22^{\circ}11'N.$ , on decl. arc, and determine a meridian with the solar at the cor. of secs. 19-20-29 and 30.  
Thence I run  
N.  $0^{\circ}03'W.$ , bet. secs. 19 and 20.  
Descend over rolling land, through dense undergrowth.  
40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 19 on W. half, S 20 on E. half, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
55.00 Enter bottom of hollow, 100 ft. deep, course NE.  
Over level land.  
55.50 Wash. 20 lks. wide, 10 ft. deep, course NE.  
58.53 Center of track of the San Pedro, Los Angeles and Salt Lake Railroad, bears N.  $47^{\circ}13'E.$ , and S.  $47^{\circ}13'W.$   
59.71 Telegraph line, bears NE. and SW.  
67.25 Road from Caliente to Modena, bears NE. and SW.  
69.00 Leave hollow, begin ascent over rolling land.  
80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 17-18-19 and 20, marked on brass cap  
T 35 S S 18 in NW.,  
R 19 W S 17 in NE. k  
S 20 in SE. and  
S 19 in SW. quadrant, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
Land, rolling and level.  
Soil, rocky on 66.00 chs. 2nd. rate.  
balance, loam, 1st. rate.  
No timber.  
Undergrowth, sage brush and greasewood.  
Land covered with dense undergrowth on 80.00 chs.

## SUBDIVISIONS OF T. 35 S., R. 19 W.

CHAINS	
	N.89°59'E., on a random line, bet. secs. 17 and 20.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.08	Intersect N. and S. line, 3 lks.S. of the cor.of secs. 16-17-20 and 21. Thence I run S.89°58'W., on a true line, Bet. secs. 17 and 20.
	Descend over rolling land, through dense undergrowth and scattering timber.
31.00	Leave timber.
40.04	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 17 on N. half, S 20 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
52.00	Enter hollow, 100 ft. deep, course NE. Over level land.
55.00	Wash, 15 ft. wide, 10 ft. deep, course NE.
56.91	Center of track of San Pedro, Los Angeles and Salt Lake Railroad bears N.47°13'E., and S.47°13'W.
58.17	Telegraph line, bears NE. and SW.
64.80	Road from Caliente to Modena, bears NE. and SW.
74.00	Leave hollow, begin ascent over rolling land,
80.08	The cor.of secs. 17-18-19 and 20. Land, rolling and level. Soil, rocky 3rd.rate on 58.00 chs. balance, loam, 1st.rate.
	Timber, scattering cedar and pinon pine.
	Undergrowth, greasewood and sage brush.
	Dense undergrowth on 80.08 chs.

## SUBDIVISIONS OF T.35 S., R.19 W.

## CHAINS

- N.89°56'W., on a random line, bet. secs. 18 and 19.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 79.81 Intersect W.bdy. of Tp., 5 lks.N. of the cor.of secs. 13-18-19 and 24, heretofore described.  
Thence I run  
S.89°58'E., on a true line,  
Bet. secs. 18 and 19.  
Descend over rolling land, through scattering timber.  
39.81 Point for  $\frac{1}{4}$  sec.cor. falls on the solid sandstone and cannot be set.  
40.01 Set an iron post, 3 ft. long, 1 in.dia., 26 ins.in the ground, for witness cor. for  $\frac{1}{4}$  sec.cor., marked on brass cap; W.C.  $\frac{1}{4}$  S 18 on N.half, S 19 on S.half, from which A cedar, 8 ins.diam., bears S.41°W., 101 lks.dist., marked W.C.  $\frac{1}{4}$  S 18. BT.  
A cedar, 5 ins.diam., bears N.64°W., 50 lks.dist., marked W.C.  $\frac{1}{4}$  S 18. BT.  
60.00 Leave timber.  
79.81 The cor.of secs. 17-18-19 and 20.  
Land, rolling.  
Soil, rocky, 2nd. rate.  
Timber, cedar and pinon.  
July 11: At this cor. I set off 22°08'N., on decl.arc, and at 0h.05m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 37°46'N.
- 
- N.0°03'W., bet.secs. 17 and 18.  
Ascend over rolling land, through sparse undergrowth.  
40.00 Set an iron post, 3 ft. long, 1 in.dia., 26 ins.in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 18 on W.half, S 17 on E.half, and raise a mound of stone, 2 ft.base, 1 $\frac{1}{2}$  ft.high, W.of cor.  
Pits impracticable.

## SUBDIVISIONS OF T. 35 S., R. 19 W.

## CHAINS

- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 7-8-17 and 18, marked on brass cap  
 T. 35 S. S. 7 in NW.,  
 R. 19 W. S. 8 in NE.,  
 S. 17 in SE. and  
 S. 18 in SW. quadrant, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.  
 Pits impracticable.  
 Land, rolling.  
 Soil, rocky loam, 2nd. rate.  
 No timber.  
 Undergrowth, sage brush.
- 
- N. 89° 58' E., on a random line, bet. secs. 8 and 17.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.02 Intersect N. and S. line, 9 lbs. N. of the cor. of secs. 8-9-16 and 17.  
 Thence I run  
 N. 89° 58' W., on a true line, bet. secs. 8 and 17.  
 Ascend over rolling land, through dense undergrowth.
- 40.01 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S. 8 on N. half,  
 S. 17 on S. half, and raise a mound of stone, 2 ft. base,  
 1½ ft. high, N. of cor.  
 Pits impracticable.
- 80.02 The cor. of secs. 7-8-17 and 18.  
 Land rolling.  
 Soil, rocky loam, 2nd. rate.  
 No timber.  
 Undergrowth, sage brush.  
 Dense undergrowth on 80.02 chs.
- 
- 02

## SUBDIVISIONS OF T.35 S., R.19 W.

## CHAINS

- N. $89^{\circ}58'W.$ , on a random line, bet. secs. 7 and 18.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 79.72 Intersect W.bdy. of Tp., 5 lks.N. of the cor.of secs. 7-12-13 and 18, heretofore described.
- Thence I run
- East, on a true line,
- Bet. secs. 7 and 18.
- Descend over rolling land, through sparse undergrowth and scattering timber.
- 35.00 Leave timber.
- 39.72 Set an iron post, 3 ft. long, 1 in.dia., 26 ins.in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 7 on N.half, S 18 on S.half, dig pits, 18x18x12 ins., E.and W.of post, 3 ft.dist., and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft. high, N.of cor.
- 79.72 The cor.of secs. 7-8-17 and 18.
- Land, rolling.
- Soil, rocky and sandy loam, 2nd. rate.
- Timber, cedar and pinon.
- Undergrowth, sage brush.
- July 11, 1909.
- 
- July 12: At 7h.05m., a.m., l.m.t., I set off  $37^{\circ}47'N.$ , on lat. arc,  $22^{\circ}03'N.$ , on decl.arc, and determine a meridian with the solar at the cor.of secs. 7-8-17 and 18.
- Thence I run
- N. $0^{\circ}03'W.$ , bet.secs. 7 and 8.
- Over rolling land, through dense undergrowth.
- 40.00 Set an iron post, 3 ft. long, 1 in.dia., 26 ins.in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 7 on W.half, S 8 on E.half, and raise a mound of stone, 2 ft.base,  $1\frac{1}{2}$  ft.high, E.of cor.
- Pits impracticable.

## SUBDIVISIONS OF T. 35 S., R. 19 W.

CHAINS	
80.00	Set an iron post, 3 ft. long, 2 ins. dia., in mound of earth, for cor. of secs. 5-6-7 and 8, marked on brass cap T 35 S S 6 in NW., R 19 W S 5 in NE., S 8 in SE. and S 7 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  On account of natural obstacles it is impossible to set this post over 15 ins. in the ground. Land, rolling. Soil, a thin layer of soil on sand tone ledges., 3rd. rate. No timber. Undergrowth, sage brush. Land covered with dense undergrowth on 20.00 chs.
	S. 89° 58' E., on a random line, bet. secs. 5 and 8.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line, 3 lks. S. of the cor. of secs. 4-5-8 and 9.  Thence I run  N. 89° 59' W., on a true line, Bet. secs. 5 and 8.  Gradual ascent in bottom of hollow, course E., through dense undergrowth.
11.00	Leave hollow, course from NW. to E.  Ascend along rolling north slope. Leave dense undergrowth.
20.00	Spur, projects N.  Abrupt descent.
25.00	Hollow, 75 ft. deep, course N.  Ascend.
27.00	Enter scattering timber.

## SUBDIVISIONS OF T. 35 S., R. 19 W.

CHAINS	
29.00	Spur, projects N. Descend.
32.00	Hollow, 75 ft. deep, course N. Ascend.
40.00	Set an iron post, 3 ft. long, 1 in. dia. in mound of earth for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 5 on N. half, S 8 on S. half, from which A cedar, 18 ins. diam., bears N. 88° 30' W., 41 lks. dist., marked $\frac{1}{4}$ S 5 BT. A cedar, 20 ins. diam., bears S. 67° W., 26 lks. dist., marked $\frac{1}{4}$ S 8 BT. On account of natural obstacles it is impossible to set this post over 11 ins. in the ground.
51.00	Leave timber.
80.00	The cor. of secs. 5-6-7 and 8. Sand, rolling. Soil, loam, 1st. rate on 11.0 chs. balance, a thin layer of earth on solid sandstone, 3rd. rate. Timber, cedar and pinon. Undergrowth, sage brush and greasewood. Dense undergrowth on 11.00 chs.
	West, on a random line, bet. secs. 6 and 7.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.67	Intersect W bdy. of the Tp., 5 lks. N. of the cor. of secs. 1-6-7 and 12, heretofore described. Thence I run N. 89° 58' E., on a true line, Bet. secs. 6 and 7.
	Descend through heavy timber.
35.00	Leave timber, bears N. and S.
39.67	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground,

## SUBDIVISIONS OF T.35 S., R.19 W.

CHAINS	
	for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 6 on N.half, S 7 on S.half, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.of cor.
	Pits impracticable.
79.67	The cor.of secs.5-6-7 and 8. Land, sloping east. Soil, rocky, 3rd.rate. Timber, cedar and pinon. Heavily timbered land on 35.00 chs. July 12: At. this cor.I set off 22'00'N., on decl.arc, and at 0h.05m., p.m., l.m.t., observe the sun on the meridian, the resulting lat.is 37°48'N.
79 b7	Knowing the line betsecs.5 and 6 will not close within limits on the N.bdy.of the Tp., I run N.0°03'W., on a true line, Betsecs.5 and 6. Descend over rocky land, through sparse undergrowth. Enter scattering timber.
4.25	Enter bottom of wide hollow, 75 ft.deep, course E. Leave timber. Over level land, through dense undergrowth.
12.50	Road from Pioche to Modena, bears NW.and SE. Leave hollow, begin ascent over rolling land.
26.90	Enter scattering timber.
40.00	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 6 on W.half, S 5 on E.half, from which A cedar, 14 ins.diam., bears S.67°30'E., 103 lks.dist., marked $\frac{1}{4}$ S 5 BT. A cedar, 28 ins.diam., bears S.75°W., 16 lks.dist., marked $\frac{1}{4}$ S 6 BT.
81.10	Intersect S.bdy.of T.34 S., R.19 W., 5.98 chs.east of the

## SUBDIVISIONS OF T.35 S., R.19 W.

## CHAINS

cor. of secs. 5-6-31 and 32, which is a trachyte stone, 6x7x6 ins. above ground, marked and witnessed as described by the surveyor general.

Set an iron post, 3 ft. long, 2 ins. dia., in mound of stone and earth, for closing cor. of secs. 5 and 6, marked on brass cap, CG-T34S-S31 R 19 W S 32 on N.half,  
T 35 S S 6 R 19 W S 5 on S.half, from which,

A cedar, 5 ins. diam., bears S.51°30'W., 79 lks.dist., marked T 35 S R 19 W., S 5 BT.

A cedar, 12 ins. diam., bears S.51°W., 35 lks.dist., marked T 35 S R 19 W. S 6 BT.

On account of natural obstacles it is impossible to set this post over 12 ins. in the ground.

I destroy all marks on the cor. of secs. 5-6-31 and 32, that pertains to T. 35 S.

Land, rolling and level.

Soil, rocky, 3rd. rate on 66.70 chs.

balance, loam, 1st. rate.

Timber, cedar and pinon.

Undergrowth, greasewood and sage brush.

Land covered with dense undergrowth on 14.40 chs.

July 12, 1909

## GENERAL DESCRIPTION.

This township lies in the western end of Escalante Valley and is generally mountainous in the southern portion and rolling in the northern portion, while the entire township is covered with a dense growth of desert brush and grasses, with a scattering growth of cedar and pinon timber growing on the rocky portions.

There is no surface water in this township.

The only land adapted for agriculture is found in the

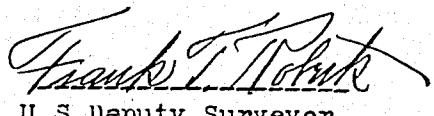
## GENERAL DESCRIPTION OF T. 35 S., R. 19 W.

northeast portion of the township, where the soil is a rich black loam, capable of producing crops with irrigation.

The San Pedro, Los Angeles and Salt Lake Railroad, runs diagonally across this township.

There are no settlers in this township.

There are no indications of mineral, oil, oil seeps or springs in this township.

  
Frank T. Tolok  
U.S. Deputy Surveyor.

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**FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.****LIST OF NAMES.**

A list of the names of the individuals employed by \_\_\_\_\_, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_, showing the respective capacities in which they acted:

or list of names and final oath of assistants see book "Z" <sup>15</sup>, Chairman.  
 T. 34 S., R. 12 W. \_\_\_\_\_, Chairman.  
 \_\_\_\_\_, Moundman.  
 \_\_\_\_\_, Moundman.  
 \_\_\_\_\_, Axman.  
 \_\_\_\_\_, Axman.  
 \_\_\_\_\_, Flagman.

**FINAL OATH OF ASSISTANTS.**

We hereby certify that we assisted \_\_\_\_\_, United States Deputy Surveyor, in surveying all those parts or portions of the \_\_\_\_\_

of the \_\_\_\_\_  
 meridian, \_\_\_\_\_ of \_\_\_\_\_, which are represented  
 the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
 is been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
 corner monuments established, according to the instructions furnished by the United States Surveyor  
 General for \_\_\_\_\_

\_\_\_\_\_, Chairman.  
 \_\_\_\_\_, Chairman.  
 \_\_\_\_\_, Moundman.  
 \_\_\_\_\_, Moundman.  
 \_\_\_\_\_, Axman.  
 \_\_\_\_\_, Axman.  
 \_\_\_\_\_, Flagman.

scribed and sworn to before me this \_\_\_\_\_  
 day of \_\_\_\_\_, 190 \_\_\_\_\_



## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, bearing date of \_\_\_\_\_, United States Surveyor General for \_\_\_\_\_, day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_.

For final oath of deputy see book "Z<sup>15</sup>" T. 34 S., R. 12 W.

of the \_\_\_\_\_ meridian, in the \_\_\_\_\_, of \_\_\_\_\_, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

*United States Deputy Surveyor*

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_ }



## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1910, W.

The foregoing field notes of the survey of the Subdivisional lines of Township 35 South, Range 19 West of the Salt Lake Base and Meridian, Utah,

executed by \_\_\_\_\_, Frank T. Roberts  
under his contract No. 313, dated April 5, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

*Frank T. Roberts*  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

*United States Surveyor General*

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4-679.

BOOK A-355

3

CORRECTIVE

FILED

FEB 21 1910

## FIELD NOTES

To Book "K" Original Notes  
OF THE SURVEY OF THE

SUBDIVISIONS

of

TOWNSHIP NO. 35 South, Range No. 19 West,

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,

Under his Contract No. 313, dated April 5, 1909,

Survey commenced February 6, 1910,

Survey completed February 6, 1910

## NAMES AND DUTIES OF ASSISTANTS.

Harvey D. Heist, Chainman

Walter A. Stumm, "

Harvey D. Heist, Moundman

Walter A. Stumm, Flagman

For preliminary affidavits see book 1, Corrective Notes T. 35 S.

R. 13 W.

BOOK A-355

## INDEX DIAGRAM.

*Township*, *Range*

0	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
80	20	28	27	26	25
81	82	83	84	85	86

*Meanders Page*

## PRELIMINARY OATHS OF ASSISTANTS.

We, ..... and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

....., Chainma

....., Chainma

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }  
100 }



We, ..... and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

....., Moundm

....., Moundm

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }  
100 }



We, ..... and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

....., Arm

....., Arm

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }  
100 }



I, ..... do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of ..... ,

....., Flagm

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }  
100 }



## CORRECTIVE NOTES OF SUBDIVISIONS OF T.35 S., R.19 W.

## CHAINS

Survey commenced February 6, 1910 and executed with the instrument described in book "A", of original survey.  
At 8h.14m., a.m., l.m.t., I set off  $37^{\circ}46'N.$  on lat.arc.  $15^{\circ}42'S.$  on decl.arc, and determine a meridian with the solar at the cor.of secs.13-14-23 and 24, T.35 S., R.19 W., described in original field notes.

Thence I run

$N.0^{\circ}01'W.$ , bet.secs.13 and 14.

- 40.00 The  $\frac{1}{4}$  sec.cor., described in original field notes.
- 79.74 The cor.of secs.11-12-13 and 14, described in original field notes.
- 80.00 Set an iron post, 3 ft.long, 2 ins.dia., in mound of stone, for cor.of secs.11-12-13 and 14, marked on brass cap  
T 35 S S 11 in NW.,  
R 19 W S 12 in NE.,  
S 13 in SE., and  
S 14 in SW.quadrant, from which,  
A cedar, 5 ins.diam., bears  $S.10^{\circ}E.$ , 87 lks.dist.,  
marked T 35 S R 19 W S 13 BT.  
No other trees within limits and raise a mound of stone,  
2 ft.base,  $1\frac{1}{2}$  ft.high, W.of cor.  
Pits impracticable.  
On account of natural obstacles it is impossible to set this post in the ground.  
There is no change of topography on this line.

See Original Notes Book Page 7

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From the cor.of secs.11-12-13 and 14, I run  
 $N.89^{\circ}55'E.$ , on a random line, bet.secs.12 and 13.

- 40.00 Set temp. $\frac{1}{4}$  sec.cor.
- 80.04 Intersect E.bdy.of Tp., 12 lks.N.of the cor.of secs. 7-12-13 and 18, described in original field notes.
- Thence I run

West, on a true line,bet.secs.12 and 13.

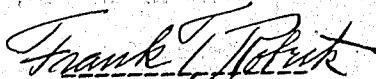
See Original Notes Book Page 6

## CORRECTIVE NOTES OF THE SUBDIVISIONS OF T. 35 S., R. 19 W.

## CHAINES

- 40.02 Set an iron post, 3 ft. long, 1 in. dia., in mound of stone and earth, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4} S 12$  on N. half, S 13 on S. half, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
Pits impracticable.  
On account of natural obstacles it is impossible to set this post over 12 ins. in the ground,  
I destroy all traces of the original  $\frac{1}{4}$  sec.cor. which bears S. 10 lks. dist.
- 80.04 The cor. of secs. 11-12-13 and 14.  
There is no change of topography on this line.
- 
- 40.00 The  $\frac{1}{4}$  sec.cor. bet. secs. 11 and 12, described in original field notes.
- 80.00 The cor. of secs. 1-2-11 and 12, described in original field notes.
- 
- From the cor. of secs. 11-12-13 and 14, I run N.  $89^{\circ}55'W.$ , on a random line, bet. secs. 11 and 14.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 80.12 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 10-11-14 and 15, described in original field notes.  
Thence I run S.  $89^{\circ}59'E.$ , on a true line, Bet. secs. 11 and 14.
- 40.06 The  $\frac{1}{4}$  sec.cor. bet. secs. 11 and 14, described in original field notes.
- 80.12 The cor. of secs. 11-12-13 and 14.

February 6, 1910.


  
U. S. Deputy Surveyor
See Original  
Notes Book H  
Page 8See Original  
Notes Book H  
Page 8See Original  
Notes Book H  
Pages 11 and 18

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by \_\_\_\_\_

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_

showing the respective capacities in which they acted:

For list of names and final oath of assistants see book 4, Chainman.

Corrective Notes T. 35 S., R. 17 W. \_\_\_\_\_, Chainman.

\_\_\_\_\_ Moundman.

\_\_\_\_\_ Moundman.

\_\_\_\_\_ Axman.

\_\_\_\_\_ Axman.

\_\_\_\_\_ Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted \_\_\_\_\_

....., United States Deputy Surveyor, in surveying all  
those parts or portions of the \_\_\_\_\_

of the \_\_\_\_\_

..... meridian, ..... of ..... which are represented  
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
corner monuments established, according to the instructions furnished by the United States Surveyor  
General for \_\_\_\_\_

\_\_\_\_\_ Chainman.

\_\_\_\_\_ Chainman.

\_\_\_\_\_ Moundman.

\_\_\_\_\_ Moundman.

\_\_\_\_\_ Axman.

\_\_\_\_\_ Axman.

\_\_\_\_\_ Flagman.

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190 \_\_\_\_\_ }



## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, United States Surveyor General for \_\_\_\_\_, bearing date of \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_.

For final oath of deputy see book 4 Corrective notes T.35 S., R. 17

of the \_\_\_\_\_ meridian, in the \_\_\_\_\_ of \_\_\_\_\_, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

*United States Deputy Surveyor*

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_. }



## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1910

corrective Subdivision of Township No. 35 South

The foregoing field notes of the survey of \_\_\_\_\_, Subdivision of Township No. 35 South Range No. 19 West of the Salt Lake Base and Meridian, Utah.

executed by \_\_\_\_\_, Frank T. Roberts  
under his contract No. 313, dated April 5, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and corrective surveys they describe, are hereby approved.

*Thomas Kell*  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

*United States Surveyor General*

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BOOK A-355

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*M.W.*

# FIELD NOTES

*m.s.a*  
RE  
OF THE SURVEY OF THE

SEVENTH STANDARD PARALLEL SOUTH.

through

TOWNSHIP NO. 35 SOUTH, RANGE NO. 20 WEST,

Of the Salt Lake Base and Meridian,  
in the state of Utah

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,

Under his Contract No. 313, dated April 5, 1909

Survey commenced July 13., 1909

Survey completed July 14., 1909

6-161

120. M. 1-48-44  
Gloss. 4-88

## NAMES AND DUTIES OF ASSISTANTS.

Sterling Wright, Chainman

Earl V. Woolley, "

Warren Stratton, "

Claude L. Heist, "

Erastus B. Dalley, Moundman

George B. McConnell, "

Joseph D. Foster, Axman

Rodney B. Shelley Flagman

For preliminary affidavits see book "F" T. 35 S., R. 18 W.

## BOOK A-355

## INDEX DIAGRAM.

*Township 35 south, Range 20 West.*

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## PRELIMINARY OATHS OF ASSISTANTS.

WE,

and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

, Chainma

, Chainma

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 189 }



WE,

and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

, Moundm

, Moundm

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 189 }



WE,

and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Axm

, Axm

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 189 }



I, \_\_\_\_\_, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of \_\_\_\_\_

, Flagm

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 189 }



## RESURVEY OF THE 7TH. STANDARD PARALLEL SOUTH, through R. 20 W.

## CHAINS

Survey commenced July 13, 1909 and executed with the instrument described in book "A" of this survey.

I examine the adjustments of the transit and correct the level and collimation errors, then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the re-established stan.cor. of Tps. 35 S., Rs. 19 and 20, W., heretofore described on the 7th. Stan. Par. South, in approximate latitude  $37^{\circ}43'N.$ , longitude  $113^{\circ}59'W.$ , I set off  $37^{\circ}43'N.$ , on lat.arc,  $21^{\circ}52'N.$ , on decl.arc, and at 4h.05m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs.N. of the cor.

July 13, 1909

July 14: At 0h.05m., a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg, driven in the ground, 5 chs.N. of my station.

At 7 a.m., I lay off the azimuth of Polaris,  $1^{\circ}29'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.3 ins.east of the mark determined by the solar.

At 8h.06m., a.m., l.m.t., I set off  $37^{\circ}43'N.$ , on lat.arc,  $21^{\circ}45'N.$ , on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs.N. of my station; this mark falls 0.3 ins.east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0'16''$  west and

## RESURVEY OF THE 7TH. STANDARD PARALLEL SOUTH, through R. 20 W.

CHAINS	
	east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian at 8h.30m., a.m. is N.16°20'W., the angle thus determined gives the mag.decl. 16°20'E. From the stan.Tp.cor.already described, I run
	West, on S.bdy.of sec.36.
	Descend over rolling land, through heavy timber.
7.00	Hollow, 50 ft.deep, course NW.
	Ascend.
12.25	Ridge, bears NW.and SE.
	Leave heavy timber, bears NW.and SE.
	Descend through scattering timber.
18.00	Hollow, 75 ft.deep, course NW.
	Ascend.
29.00	Ridge, bears NW.and SE.
	Descend.
	Difference between measurement of 40.00 chs., by two sets of chainmen is 10 lks., position of middle point,
	By 1st.set, 40.05 chs.,
	By 2nd.set, 39.95 chs., the mean of which is
40.00	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for re-established stan. $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 36 on N.half, from which
	A cedar, 15 ins.diam., bears N.76°30'E., 204 lks.dist marked S C + S 36 RT.
	No other trees within limits and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, N.of cor.
	Pits impracticable.
	I destroy all traces of the old stan. $\frac{1}{4}$ sec.cor. which bears N.43°W., 4.49 chs.dist.
42.00	Hollow, 100 ft.deep, course N.
	Ascend.

## RESURVEY OF THE 7TH. STANDARD PARALLEL SOUTH, through R. 20 W.

## CHAINS

- 52.00 Spur, projects N.  
Descend.
- 57.10 Hollow, 75 ft. deep, course N.  
Ascend.
- 73.00 Ridge, bears N. and S.  
Descend.  
Difference between measurement of 80.00 chs., by two sets of chainmen is 12 lks., position of middle point,  
By 1st. set, 80.06 chs.,  
By 2nd. set, 79.94 chs., the mean of which is  
80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground for re-established stan.cor. of secs. 35 and 36, marked on brass cap T 35 S S 35 in NW., and R 20 W S 36 in NE. quadrant, from which  
A cedar, 10 ins. diam., bears N. 12° 30' E., 196 lks. dist., marked T 35 S R 20 W S 36 BT.  
A cedar, 15 ins. diam., bears N. 39° W., 69 lks. dist., marked T 35 S R 20 W S 35 BT.  
I destroy all traces of the old stan.sec.cor., which bears N. 41° 30' W., 4.76 chs.  
Land, rolling.  
Soil, rocky, 3rd. rate.  
Timber, cedar and pinon.  
Heavily timbered land on 12.25 chs.
- 
- West, on S.bdy.of sec. 35.  
Descend over mountainous land, through scattering timber.
- 4.00 Hollow, 100 ft. deep, course NW.  
Abrupt ascent.
- 18.00 Ridge, bears N. and S.  
Abrupt descent..
- 26.25 Hollow, 100 ft. deep, course N.  
Abrupt ascent.
- 34.00 Ridge, bears N. and S.

## RESURVEY OF THE 7TH STANDARD PARALLEL SOUTH, through R. 20 W.

CHAINS	
	Abrupt descent.
39.75	Foot of abrupt descent, bearing NE. and SW. Leave timber. Enter bottom of wide hollow, 100 ft. deep, course NE. Enter dense undergrowth. Difference between measurement of 40.00 chs., by two sets of chainmen is 14 lks., position of middle point By 1st.set, 40.07 chs., By 2nd.set, 39.93 chs., the mean of which is
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established stan. $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 35 on N. half, from which A cedar, 10 ins. diam., bears N. 21° E., 99 lks. dist., marked SC $\frac{1}{4}$ S 35 BT. No other trees within limits and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. I destroy all traces of the old stan. $\frac{1}{4}$ sec.cor., which bears N. 40° 45' W., 5.05 chs. dist., No difference between chainmen to
48.44	Intersect Utah-Nevada Boundary Line, 4.88 chs. South of the 251st. Mile Post, which is a cedar post, 4 ins. sq., projecting 36 ins. above the ground, marked 251 M on S. Utah on E. and Nevada on W. faces, in mound of earth. Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for closing stan.cor. of T. 35 S., R. 20 W., marked on brass cap, NCC 251 M on W. half, and T 35 S R 20 W S 35 C on E. half, dig pits, 30x24x12 ins., crosswise on each line, N. and S. 4 ft. and E. of post, 8 ft. dist., and raise a mound of earth, 5 ft. base, 2 $\frac{1}{2}$ ft. high, E. of cor.

## RESURVEY OF THE 7TH STANDARD PARALLEL SOUTH, through R.20 WEST.

## CHAINS

The old stan.closing cor. bears North 339 lks.dist.,  
I destroy all traces of old closing cor.

Land, mountainous and bottom land.

Soil, rocky, 3rd.rate on 39.75 chs.

balance, bottom land, 1st.rate.

Timber, cedar and pinon.

Undergrowth, sage brush.

Mountainous land or land covered with dense undergrowth  
on 48.44 chs.

July 14: At this cor. I set off  $21^{\circ}43'N.$ , on decl.arc, and  
at 0h.06m., p.m., l.m.t., observe the sun on the meridian,  
the resulting lat. is  $37^{\circ}43'N.$

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For General Description, see Subdivisions of  
T.35 S., R.20 W.

*Frank G. Roberts*  
U.S. Deputy Surveyor

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**FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.****LIST OF NAMES.**

A list of the names of the individuals employed by \_\_\_\_\_

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_

showing the respective capacities in which they acted:

....., *Chainman.*

For list of names and final oath of assistants see book "Z", *Chainman.*

T. 35 S., R. 14 W. ...., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

**FINAL OATH OF ASSISTANTS.**

We hereby certify that we assisted \_\_\_\_\_

....., United States Deputy Surveyor, in surveying all

those parts or portions of the \_\_\_\_\_

....., of the \_\_\_\_\_

....., meridian, ..... of ..... which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for \_\_\_\_\_

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 189 \_\_\_\_\_ }



## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor \_\_\_\_\_, solemnly swear that, in pursuance of a contract received from \_\_\_\_\_ United States Surveyor General for \_\_\_\_\_, bearing date of \_\_\_\_\_ day of \_\_\_\_\_, 189\_\_\_\_\_, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_.

For final oath of deputy see book "Z" T. 35 S., R. 14 W.

of the \_\_\_\_\_ meridian, in the \_\_\_\_\_ of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 189 }



## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1910, X

re  
The foregoing field notes of the survey of the Seventh Standard Parallel South through Range 20 West of the Salt Lake Base and Meridian, Utah,

executed by \_\_\_\_\_ Frank T. Roberts  
under his contract No. 313, dated April 5, 1909, X, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank T. Roberts  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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Page

" M "  
BOOK A-355

FILED

DEC 31 1909

# FIELD NOTES

RETRACEMENT  
OF THE SURVEY OF THE

UTAH - NEVADA BOUNDARY LINE,

through

TOWNSHIP NO. 35 SOUTH, RANGE NO. 20 WEST,

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,

under his Contract No. 313, dated April 5, 1909

retracement

Survey commenced July 14, 1909

retracement

Survey completed July 15, 1909

**NAMES AND DUTIES OF ASSISTANTS.**

Sterling Wright, ..... Chairman

Claude L. Heist, ..... "

Erastus B. Dalley, ..... Moundman

George B. McConnell, ..... "

Joseph D. Foster, ..... Axman

Earl V. Woolley, ..... "

Rodney B. Shelley, ..... Flagman

**Volume**

**#**

**R0355**

## BOOK A-355

## INDEX DIAGRAM.

*Township* \_\_\_\_\_, *Range* \_\_\_\_\_

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*Meanders Page* \_\_\_\_\_

## PRELIMINARY OATHS OF ASSISTANTS.

We, Sterling Wright and Claude L. Heist,

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

Utah-Nevada Bdy. Line, through T. 35 S., R. 20 W., S. L. B. & M., in the state of

Sterling Wright, Chainman  
Claude L. Heist, Chainman

Subscribed and sworn to before me this 14th.

day of July, 1909 } Frank T. Roberts



U.S. Deputy Surveyor

We, Erastus R. Dalley and George B. McConnell,

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

Utah-Nevada Bdy. Line, through T. 35 S., R. 20 W., S. L. B. & M., in the state of

Erastus R. Dalley, Moundman  
George B. McConnell, Moundman

Subscribed and sworn to before me this 14th.

day of July, 1909 } Frank T. Roberts



U.S. Deputy Surveyor

We, Joseph D. Foster and Earl V. Woolley

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

Utah-Nevada Bdy. Line, through T. 35 S., R. 20 W., S. L. B. & M., in the state of

Joseph D. Foster, Axman  
Earl V. Woolley, Axman

Subscribed and sworn to before me this 14th.

day of July, 1909 } Frank T. Roberts



U.S. Deputy Surveyor

I, Rodney R. Shelley,

do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the retracement of the Utah-Nevada Bdy. Line, through T. 35 S., R. 20 W., S. L. B. & M., in the state of Utah.

Rodney R. Shelley, Flagman

Subscribed and sworn to before me this 14th.

day of July, 1909 } Frank T. Roberts



U.S. Deputy Surveyor

## RETRACEMENT OF THE UTAH-NEVADA BOUNDARY LINE, through T.35 S.R.20 W.

## CHAINS

Survey commenced, July 14, 1909, and executed with the instrument described in book "A", of this survey.

I examine the adjustments of the transit and correct the level and collimation errors, then, to test solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the 251st. mile post on the Utah-Nevada Bdy. Line, heretofore described in approximate latitude  $37^{\circ}43'$  N., longitude  $114^{\circ}00'W.$ , I set off  $37^{\circ}43'N.$ , on lat.arc,  $21^{\circ}42'N.$ , on decl.arc, and at 4h.06m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs.N. of the cor.

July 14, 1909

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July 15: At 0h.01m., a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg, driven in the ground, 5 chs.N. of my station.

At 7.a.m., I lay off the azimuth of Polaris,  $1^{\circ}29'$  to the west and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.3 ins.east of the mark determined by the solar.

At 8h.06m., a.m., l.m.t., I set off  $37^{\circ}43'N.$  on lat.arc,  $21^{\circ}35'N.$  on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs.N. of my station; this mark falls 0.3 ins.east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0^{\circ}16'$  west and east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

## RETRACEMENT OF THE UTAH-NEVADA BOUNDARY LINE, through T.35 S., R.20 W.

## CHAINS

- The magnetic bearing of the true meridian, at 8h.30m., a.m. is N. $16^{\circ}20'W.$ ; the angle thus determined gives the mag.decl. $16^{\circ}20'E.$
- From the 251st. Mile Cor., I can see the course of the 251st.mile, by points set on the line, therefore I run N. $0^{\circ}19'E.$ , retracing the 251st.Mile.
- Over level land, in hollow, course NE.
- 27.70 Intersect pine post, 5 ins.sq., projecting 8 ft.above a mound of stone, post painted white and marked "Lincoln County" on W. and "Iron County" on E.sides.
- 28.66 To iron hub in center of track of the San Pedro, Los Angeles and Salt Lake Railroad, bears N. $51^{\circ}45'E.$ , and S. $51^{\circ}45'W.$   
Iron hub above mentioned is point marking state bdy.line on railroad track.
- 29.60 Telegraph line, bears NE. and SW.
- 29.64 Intersect pine post, 8 ins.sq., projecting 8 ft.above a mound of stone, post painted white and marked "Nevada" on W. and "Utah" on E.sides.  
Leave hollow, begin ascent over rolling land.
- 34.50 Road from Caliente to Modena, bears NE. and SW.
- 79.80 Intersect the 250 Mile Post, which is a cedar post, 4 ins. sq., projecting 36 ins.above a mound of earth, marked 250 M. on S., "Nevada" on W. and "Utah" on E.faces.  
The course of the 251st.mile is therefore N. $0^{\circ}19'E.$
- 
- North, retracing 250th.Mile.
- 80.30 Fall 47 lks.W.of the 249th.mile post, which is a cedar post, 4 ins.sq., projecting 24 ins.above a mound of earth, marked 249 M. on S., "Nevada" on W. and "Utah" on E.faces.  
The course of this line is therefore N. $0^{\circ}20'E.$  and the distance 80.30 chs.

## RETRACEMENT OF THE UTAH-NEVADA BOUNDARY LINE, through T.35 S., R.20 W.

## CHAINS

North, retracing the 249th.Mile.

- 80.00 Fall 9' lks. west of the 248th.mile post, which is a cedar post, 4 ins.sq., projecting 30 ins.above a mound of earth, marked 248M on S., "Nevada" on W.and "Utah" on E.faces. The course of this line is therefore N.0°04'E. and the distance 80.00 chs.
- 

North, retracing the 248th.Mile.

- 78.09 Fall 7.82 chs.W.of the 247th.mile post, which is a cedar post, 4 ins.sq., projecting 30 ins.above a mound of earth, marked 247M on S., "Nevada" on W.and "Utah" on E.faces. The course of this line is therefore N.5°42'E., and the distance 78.62 chs.

July 15: At this cor.I set off 21°33'N., on decl.arc, and at Oh.06m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 37°47'N.

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North, retracing the 247th.Mile.

- 79.30 Fall 2.61 chs.W.of the 246th.mile post, which is a cedar post, 4 ins.sq., projecting 28 ins.above a mound of earth, marked 246M on S., "Nevada" on W.and "Utah" on E.faces. The course of this line is therefore N.1°53'E., and the distance 79.34 chs.
- 

North, retracing the 246th.Mile.

- 79.10 Fall 46 lks.W.of the 245th.mile post, which is a cedar post, 4 ins.sq., 36 ins.above ground, marked 245Mon S. "Nevada" on W. and "Utah" on E.faces. The course of this line is therefore N.0°20'E., and the distance 79.10 chs.

July 15, 1909

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## RETRACEMENT OF THE UTAH-Nevada Boundary Line, through T.35 S., R.20

For General Description see Subdivisions of

T. 35 S R 20 W.

*Frank T. Roberts*  
U.S. Deputy Surveyor

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by Frank T. Roberts, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Utah-Nevada Bdy. Line, through T. 35 S., R. 20 W., S. L. B. & M., in the state of Utah, showing the respective capacities in which they acted:

Sterling Wright, Chainman.  
Claude L. Heist, Chainman.  
Erastus B. Dalley, Moundman.  
George B. McConnell, Moundman.  
Joseph D. Foster, Axman.  
Earl V. Woolley, Axman.  
Rodney B. Shelley, Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Frank T. Roberts, United States Deputy Surveyor, in retracing all those parts or portions of the Utah-Nevada Bdy. Line, through T. 35 S., R. 20 W.

of the Salt Lake Base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Sterling Wright, Chainman.  
Claude L. Heist, Chainman.  
Erastus B. Dalley, Moundman.  
George B. McConnell, Moundman.  
Joseph D. Foster, Axman.  
Earl V. Woolley, Axman.  
Rodney B. Shelley, Flagman.

scribed and sworn to before me this 15th. }  
day of July, 1909 }

Frank T. Roberts

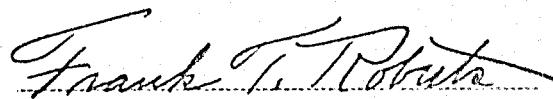


U. S. Deputy Surveyor

## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

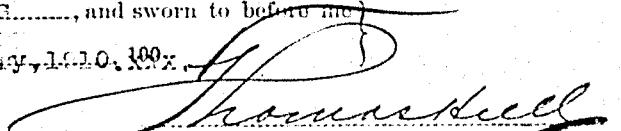
I, Frank T. Roberts, United States Deputy Surveyor,  
 solemnly swear that, in pursuance of a contract received from Thomas Hull,  
 United States Surveyor General for Utah, bearing date of  
5th day of April, 1909, I have well, faithfully, and truly, in my own  
 proper person, and in strict conformity with the instructions furnished by the United States Surveyor  
 General for Utah, the Manual of Surveying Instructions, and the laws of the  
 United States, ~~retraced~~ all those parts or portions of  
Utah-Nevada Bdy. Line, through T. 35 S., R. 20 W.

.....of the Salt Lake Base  
 .....and ..... meridian, in the state of Utah, which are represented in  
 foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly  
 swear that all the corners of said survey have been established and perpetuated in strict accordance with  
 the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor  
 General for Utah, and in the specific manner described in the field notes, and that  
 the foregoing are the original field notes of such survey.

  
Frank T. Roberts  
 United States Deputy Surveyor

Subscribed by said Frank T. Roberts, and sworn to before me  
 this 21 day of January, 1909.

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Thomas Hull  
 U.S. Surveyor-General

for Utah.

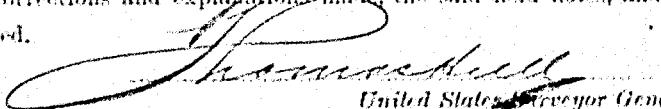
APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1909

The foregoing field notes of the ~~survey~~ of ~~retracement of~~ Utah-Nevada Boundary  
line through Township 35 South, Range 20 West, of the Salt Lake Base  
Meridian, Utah,

executed by Frank T. Roberts,  
 under his contract No. 512, dated April 2, 1909, having been  
 critically examined, and the necessary corrections and explanations made, the said field notes, and  
~~any~~ they describe, are hereby approved.

  
Thomas Hull  
 United States Surveyor General

I verify that the foregoing transcript of the field notes of the above-described survey is in all respects correct, and has been correctly copied from the original notes on file in this office.

United States Surveyor General

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4-679.

"N."  
BOOK A-355

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# FIELD NOTES

OF THE SURVEY OF THE

NORTH BOUNDARY

of

TOWNSHIP NO. 35 SOUTH,

RANGE NO. 20 WEST,

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,

Under his Contract No. 313, dated April 5, 1909

Survey commenced July 16, 1909

Survey completed July 17, 1909

6-161

N.Bdy + 30-90'  
Slo.  
.33

**NAMES AND DUTIES OF ASSISTANTS.**

Sterling Wright, ..... Chainman

Claude L. Heintz, .....

Erastus H. Valley, ..... Woundman

George E. McConnell, .....

Joseph D. Foster, ..... Axman

Karl V. Woolley, .....

Rodney B. Shelley, ..... Flagman

For preliminary air invites see Book "J" T. 35 S., R. 19 W.

## BOOK A-355

## INDEX DIAGRAM.

*Township.....35. South., Range.....20. West,*

6	5	4	3	2	3	2
7	8	9	10	11	12	
18	17	16	15	14	13	
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	

*Meanders Page.....*

BOOK A-300  
PRELIMINARY OATHS OF ASSISTANTS.

We, ..... and ..... do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assay measuring, to the best of our skill and ability, and in accordance with instructions given us, in the surveying, ..... , Chainmen, ..... , Chainmen,

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }  
SEAL

We, ..... and ..... do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the surveying, ..... , Moundmen, ..... , Moundmen,

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }  
SEAL

We, ..... and ..... do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the surveying, ..... , Axmen, ..... , Axmen,

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }  
SEAL

I, ..... , do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the surveying of ..... , Flagman, ..... , Flagman,

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }  
SEAL

## NORTH BOUNDARY OF T. 35 S., R. 20 W.

## CHAINS

Survey commenced, July 16, 1909 and executed with the instrument described in book "A" of this survey.

I examine the adjustments of the transit and correct the level and collimation errors, then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 34 S. RS. 19 and 20W. heretofore described, in approximate latitude  $37^{\circ}49'N.$ , longitude  $113^{\circ}59'W.$ , I set off  $37^{\circ}49'N.$ , on lat. arc,  $21^{\circ}23'N.$  on decl. arc, and at 4h. 06m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone, firmly set in the ground, 5 chs. N. of the cor.

At 11h. 53m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg, driven in the ground, 5 chs. N. of my station.

July 16, 1909

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July 17: At 7 a.m., I lay off the azimuth of Polaris,  $1^{\circ}29'$  to the west and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 8h. 06m., a.m., l.m.t., I set off  $37^{\circ}49'N.$ , on lat. arc,  $21^{\circ}16'N.$ , on decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectfully about  $0'16''$  west and east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

## NORTH, BOUNDARY OF T. 35 S., R. 20 W.

CHAINS	
	The magnetic bearing of the true meridian at 8h.30m., a.m. is N.16°20'W., the angle thus determined gives the mag decl. 16°20'E.
	From the Tp.cor. already described, I run
	West, bet. secs. 1 and 36.
	In bottom of hollow, course SE., over level land, through dense undergrowth.
3.85	Wash, 20 lks.wide, 10 ft.deep, course SE.
4.50	Road, from Pioche to Modena, bears NW. and SE.
	Leave hollow, begin ascent over rolling land.
	Leave dense undergrowth.
9.00	Enter heavy timber, bears NW. and SE.
24.00	Spur, projects SE.
	Descend.
34.00	Hollow, 75 ft.deep, course SE.
	Leave timber, bears NW. and SE.
40.00	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for $\frac{1}{4}$ seccor., marked on brass cap, $\frac{1}{4}$ S 36 on N.half, and S 1 on S.half, from which
	A cedar, 5 ins.diam., bears N.52°30'E., 240 lks.dist., marked $\frac{1}{4}$ S 36 BT.
	No other trees within limits and raise a mound of stone, 2 ft.base, 1 $\frac{1}{2}$ ft.high, N.of cor.
	Pits impracticable.
44.00	Spur, projects SE.
	Descend.
54.00	Hollow, 75 ft.deep, course SE.
	Ascend.
61.00	Spur, projects SE.
	Descend.
63.00	Enter bottom of wide hollow, 75 ft.deep, course SE.
	Over level land.
76.00	Leave hollow, begin ascent.

## NORTH BOUNDARY OF T.35 S., R.20 W.

CHAINS	
76.50	Enter heavy timber, bears NW. and SE.
79.00	Spur, projects N. Descend.
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground for cor. of secs. 1-2-35 and 36, marked on brass cap T 34 S S 35 in NW., R 20 W S 36 in NE., R 20 W S 1 in SE. and T 35 S S 2 in SW. quadrant, from which A cedar, 6 ins. diam., bears N.71°E., 25 lks. dist., marked T 34 S R 20 W S 36 RT. A cedar, 7 ins. diam., bears N.44°30'W., 57 lks. dist., marked T 34 S R 20 W S 35 BT. No other trees within limits and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Land, level and rolling. Soil, loam, on 17.50 chs., 1st. rate. balance, rocky, 3rd. rate. Timber, cedar and pinon. Undergrowth, greasewood and sage brush. Land covered with dense undergrowth or heavily timbered land on 46.00 chs.
	West, bet. secs. 2 and 35. Descend through heavy timber.
8.00	Hollow, 50 ft. deep, course NE. Ascend.
17.00	Ridge, bears NE. and SW. Descend.
26.00	Hollow, 50 ft. deep, course NE. Leave timber, bears N. and S. Ascend.
29.00	Spur, projects NE. Descend.

## NORTH BOUNDARY OF T.35 S., R.20 W.

## CHAINS

30.90 Intersect Utah-Nevada Boundary Line, S. $0^{\circ}20'W.$ , 33 lks. from the 245th. mile post, heretofore described. Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for closing cor. of Tps. 34 and 35 S., R.20 W., marked on brass cap NCC245 M on W. half, and T 34 S S 35 S US 2 R 20 W T 35 S on E. half, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, E. of cor. Pits impracticable.

Land, rolling.

Soil, rocky, 3rd. rate.

Timber, cedar and pinon.

Heavily timbered land on 26.00 chs.

July 17: At this cor. I set off  $21^{\circ}14'N.$ , on decl. arc, and at 9h.06m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $37^{\circ}49'N.$

For general description see notes of the subdivision of this township.

## BOUNDARIES OF T.35 S., R.20 W.

Latitudes, departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
7th. Stan. Par. S. West		128.44				128.44
U-N. Bdy. Line	North	4.88	4.88			
	N. $0^{\circ}19'E.$	79.80	79.80		0.44	
	N. $0^{\circ}20'E.$	80.30	80.30		0.47	
	N. $0^{\circ}04'F.$	80.00	80.00		0.00	
	N. $5^{\circ}42'E.$	78.62	78.09		7.82	
	N. $1^{\circ}53'E.$	79.34	79.30		2.61	
	N. $0^{\circ}20'E.$	78.77	78.77		0.46	
N. Bdy.	East	116.38			116.38	
F. Bdy.	South	481.26		481.26		
Convergency					0.14	
	Totals		481.14	481.26	128.44	128.44
				481.14		128.44
					0.12	0.03
Error in lat. and dep.						

*Frank T. Hobink*  
U.S. Deputy Surveyor

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by \_\_\_\_\_  
 \_\_\_\_\_, United States Deputy Surveyor, to assist in running, measuring, and  
 marking the lines and corners described in the foregoing field notes of the survey of

showing the respective capacities in which they acted:

or list of names and final oath of assistants see book "Z<sup>13</sup>", Chainman.  
 T. 34 S., R. 12 W. \_\_\_\_\_, Chainman.  
 \_\_\_\_\_, Moundman.  
 \_\_\_\_\_, Moundman.  
 \_\_\_\_\_, Axman.  
 \_\_\_\_\_, Axman.  
 \_\_\_\_\_, Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted \_\_\_\_\_  
 \_\_\_\_\_, United States Deputy Surveyor, in surveying all  
 those parts or portions of the \_\_\_\_\_

of the \_\_\_\_\_  
 meridian, \_\_\_\_\_ of \_\_\_\_\_, which are represented  
 the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
 is been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
 corner monuments established, according to the instructions furnished by the United States Surveyor  
 General for \_\_\_\_\_

\_\_\_\_\_, Chainman.  
 \_\_\_\_\_, Chainman.  
 \_\_\_\_\_, Moundman.  
 \_\_\_\_\_, Moundman.  
 \_\_\_\_\_, Axman.  
 \_\_\_\_\_, Axman.  
 \_\_\_\_\_, Flagman.

scribed and sworn to before me this \_\_\_\_\_  
 day of \_\_\_\_\_, 190 \_\_\_\_\_



## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, United States Surveyor General for \_\_\_\_\_, bearing date \_\_\_\_\_, day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_.

For final oath of deputy see book "Z13" T. 34 S., R. 12 W.

of the \_\_\_\_\_ meridian, in the \_\_\_\_\_, which are represented by the foregoing field notes as having been surveyed by me, and under my direction; and I do further swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_, and in the specific manner described in the field notes, the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_ }



## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21,

The foregoing field notes of the survey of \_\_\_\_\_ the North Boundary of Township \_\_\_\_\_ South, Range 20 West of the Salt Lake Base and Meridian, Utah,

executed by \_\_\_\_\_ Frank T. Roberts  
under his contract No. 313, dated April 5, 1909, have been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank T. Roberts  
United States Surveyor

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

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BOOK A-355

FILED  
DEC 31 1909  
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# FIELD NOTES

*M. S. R.*  
OF THE SURVEY OF THE

S U B D I V I S I O N S .

of

TOWNSHIP NO. 35. SOUTH,

RANGE NO. 20. WEST,

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,

Under his Contract No. 313, dated April 5, 1909

Survey commenced July 17, 1909

Survey completed July 20, 1909

e-161

*Subs 13.60.60'  
Clay 25.93'*

## NAMES AND DUTIES OF ASSISTANTS.

Sterling Wright, Chainman

Claude L. Heist, "

Erastus B. Dalley, Moundman

George B. McConnell, "

Joseph D. Foster, Axman

Earl V. Woolley, "

Rodney B. Shelley, Flagman

For preliminary affidavits see book "E" T. 35 S., R. 17 W.

## BOOK A-355

## INDEX DIAGRAM.

*Township 35 South, Range 20 West.*

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7	8	9	10	11	12	13
18	17	16	15	14	10	13
19	20	21	22	23	7	24
30	29	28	27	26	5	25
31	32	33	34	35	2	36

*Meanders Page*

## PRELIMINARY OATHS OF ASSISTANTS.

WE, ..... and .....

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of ..... , Chainmen, 190 }

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



WE, ..... and .....

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of ..... , Moundmen, 190 }

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



WE, ..... and .....

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of ..... , Axmen, 190 }

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



I, ..... , do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of ..... , Flagman, 190 }

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



## SUBDIVISIONS OF T.35 S., R.20 W.

## CHAINS

Survey commenced July 17, 1909, and executed with the instrument described in book "A", of this survey. I examine the adjustments of the transit and correct the level and collimations errors, then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the re-established stan.cor. of secs. 35 and 36, heretofore described on the 7th. Stan. Par. South, in approximate latitude  $37^{\circ}43'N.$ , longitude  $114^{\circ}90'W.$ , I set off  $37^{\circ}43'N.$  on lat.arc,  $21^{\circ}13'N.$  on decl.arc, and at 4h. 06m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chs.N. of the cor.

At 11h.50m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg, driven in the ground, 5 chs N. of my station.

July 17, 1909

July 18: At 7h.a.m., I lay off the azimuth of Polaris,  $1^{\circ}29'$  to the west and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 8h.06m., a.m., l.m.t., I set off  $37^{\circ}43'N.$ , on lat.arc,  $21^{\circ}06'N.$ , on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs.N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectfully about  $0'16''$  west and east of the meridian established by the Polaris observat-

## SUBDIVISIONS OF T.35 S., R.20 W.

## CHAINS

ions: therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.30m., a.m., is N. $16^{\circ}20' E.$ , the angle thus determined gives the mag.decl. $16^{\circ}20' E.$

From the stan.sec.cor.already described, I run

N. $0^{\circ}01' W.$ , bet.secs.35 and 36.

Descend over rolling land, through scattering timber.

40.00 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 35 on W.half and S 36 on E.half, from which

A cedar, 4 ins.diam., bears N. $36^{\circ}30' E.$ , 21 lks.dist., marked  $\frac{1}{4}$  S 36 BT.

A cedar, 5 ins.diam., bears N. $10^{\circ}W.$ , 131 lks.dist., marked  $\frac{1}{4}$  S 35 BT.

55.00 Leave timber.

63.00 Enter bottom of wide hollow, 100 ft.deep; course NE. Over level land, through dense undergrowth.

71.59 Uvada Siding of the S.P., L.A. & S.L.Railroad, bears N. $51^{\circ}48'E.$  and S. $51^{\circ}48'W.$

72.00 Center of track of the San Pedro, Los Angeles and Salt Lake Railroad, bears N. $51^{\circ}48'E.$  and S. $51^{\circ}48'W.$

72.75 Telegraph line, bears NE.and SW.

80.00 Set an iron post, 3 ft.long, 2 ins.dia., 24 ins.in the ground for cor.of secs.25-26-35 and 36, marked on brass cap

T 35 S S 26 in NW.,

R 20 W S 25 in NE.,

S 36 in SE.and

S 35 in SW.quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft.dist., and raise a mound of earth, 4 ft.base, 2 ft. high,W.of cor.

Land, rolling and level.

Soil, rocky, 3rd.rate on 63.00 chs.

## SUBDIVISIONS OF T.35 S., R.20 W.

## CHAINS

balance, loam, 1st. rate.

Timber, cedar and pinon.

Undergrowth, sage brush.

Dense undergrowth on 17.00 chs.

East, on a random line, bet. secs. 25 and 36.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.02 Intersect E. bdy. of Tp., at the cor. of secs. 25-30-31 and 36, heretofore described.

Thence I run

West, on a true line,

Bet. secs. 25 and 36.

Descend over rolling and rocky land, through sparse undergrowth.

40.01 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 25 on N. half, S 36 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

63.00 Enter bottom of wide hollow, 100 ft. deep, course NE. Over level land, through dense undergrowth.

69.44 Uvada Siding of the S.P., L.A. & S.L. Railroad, bears N. 51° 48' E., and S. 51° 48' W., 5.00 chs. from NE. end of siding.

69.84 Center of track of the San Pedro, Los Angeles and Salt Lake Railroad, bears N. 51° 48' E., and S. 51° 48' W.

70.60 Telegraph line, bears NE. and SW.

80.02 The cor. of secs. 25-26-35 and 36.

Land, rolling and level.

Soil, rocky, 3rd. rate on 63.00 chs.

balance, loam, 1st. rate.

No timber.

Undergrowth, sage brush.

Land covered with dense undergrowth on 17.02 chs.

## SUBDIVISIONS OF T. 35 S., R. 20 W.

Chains	
	West, on a true line, bet. secs. 26 and 35.
	In bottom of wide hollow, course NE., over level land, through dense undergrowth.
3.00	Road, from Caliente, to Modena, bears NE. and SW.
4.00	Leave hollow, begin ascent over rolling land.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 26 on N. half, S 35 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
47.98	Intersect Utah-Nevada Boundary Line, 4.68 chs., S. 0°19' W., from the 250th. mile post, heretofore described. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for closing cor. of secs. 26 and 35, marked on brass cap GCN 250 M on W. half and T 35 S R 20 W C U S 26 S 35 on E. half, dig pits, 24x18x12 ins., crosswise on each line, N. and S. 3 ft. and E. of post, 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, E. of cor. Land, level and rolling. Soil, loam, 1st. rate on 4.00 chs. balance, gravelly, 3rd. rate. No timber. Undergrowth, sage brush. Dense undergrowth on 47.98 chs. July 18: At this cor. I set off 21°04' N., on decl. arc, and at 0h.06m., p.m., 1.m.t., observe the sun on the meridian, the resulting lat. is 37°44' N.

## SUBDIVISIONS OF T.35 S., R.20 W.

## CHAINS

- N.0°01'W., bet. secns. 25 and 26.  
In bottom of hollow, course NE., over level land, through sparse undergrowth.
- 1.65 Road from Caliente to Modena, bears NE. and SW.
- 2.00 Leave hollow, begin ascent over rolling land.
- 17.00 Spur, projects E.  
Descend.
- 18.00 Hollow, 50 ft. deep, course E.  
Ascend.
- 22.00 Spur, projects E.  
Descend.
- 38.00 Hollow, 75 ft. deep, course E.  
Ascend.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap;  $\frac{1}{2}$  S 26, on W. half end, S 25 on E. half, dig pits, 18x18x12 ins. N. and S. of post, 3 ft. diam., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.
- 45.00 Spur, projects E.  
Descend.
- 50.00 Enter bottom of wide hollow, 50 ft. deep, course SE.  
Over level land.
- 70.50 Leave hollow, begin abrupt ascent, bears E. and W.
- 73.00 Spur, projects E.  
Descend.
- 76.00 Hollow, 50 ft. deep, course E.  
Ascend.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secns. 23-24-25 and 26, marked on brass cap  
T 35 S S 23 in NW.,  
R 20 W S 24 in NE.,  
S 25 in SE. and  
S 26 in SW. quadrant, and raise a mound of stone, 2 ft. base,  
1 $\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.

## SUBDIVISIONS OF T.35 S., R.20 W.

## CHAINS

- Land, level and rolling.  
 Soil, gravelly loam, 2nd. rate.  
 No timber.  
 Undergrowth, sage brush.
- 
- East, on a random line, bet. secs. 24 and 25.
- 40.00 Set temp. + sec. cor.  
 H0.00 Intersect E. bdy. of Tp., 3 lks. N. of the cor. of secn.  
 10-24-25 and 30, heretofore described.  
 Thence I run  
 N. 89° 59' W., on a true line,  
 Bet. secns. 24 and 25.  
 Ascend over rolling land, through sparse undergrowth.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor., marked on brass cap,  $\frac{1}{2}$  S. 26 on N. half, S. 25 on S. half, dig pit, 18x18x12 in., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.  
 65.00 Ridge, bears NW. and SE.  
 Descend.  
 73.00 Hollow, 75 ft. deep, course S.  
 Ascend.  
 H0.00 The cor. of secns. 23-24-25 and 26.  
 Land, rolling.  
 Soil, gravelly loam, 2nd. rate.  
 No timber.  
 Undergrowth, sage brush.
- 
- West, on a true line, bet. secns. 23 and 25.
- Ascend over rolling and rocky land.
- 21.00 Ridge, bears NW. and SE.  
 42.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor., marked on brass cap,  $\frac{1}{2}$  S. 23 on N. half,

## SUBDIVISIONS OF T.35 S., R.20 W.

CHAINS

S 26 on S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

47.42 Intersect Utah-Nevada Bdy. Line, S.  $0^{\circ}20'W.$ , 497 lks. dist., from the 249th. mile post, heretofore described.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for closing cor. of secs. 23 and 26, marked on brass cap CCN249 M on W., and

U T 35 S R 20 W S 23 S 26 on E.half, dig pits, 18x18x12 ins., crosswise on each line, N. and S., 3 ft. and E. of post, 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, E. of cor.

Land, rolling.

Soil, rocky, 2nd. and 3rd. rate.

No timber.

July 18, 1909

July 19: At 7h. 06m., a.m., l.m.t., I set off  $37^{\circ}45'N.$  on lat. arc,  $20^{\circ}56'N.$  on decl. arc, and determine a meridian with the solar at the cor. of secs. 23-24-25 and 26.

Thence I run

N.  $0^{\circ}01'W.$ , bet. secs. 23 and 24.

Ascend over rolling land, through sparse undergrowth.

14.00 Ridge, bears NW. and SE.

Descend over rolling land.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap  $\frac{1}{4}$  S 23 on W. half S 24 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

62.50 Enter scattering timber.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., in mound of earth and stone for cor. of secs. 13-14-23 and 24, marked on brass cap T 35 S S 14 in NW.,

## SUBDIVISIONS OF T. 35 S., R. 20 W.

	CHAINS
	R 20 W S 13 in NE., S 24 in SE., and S 23 in SW. quadrant, from which A cedar, 12 ins. diam., bears N. 38° E., 118 lks. dist., marked T 35 S R 20 W S 13 BT. A cedar, 10 ins. diam., bears S. 71° E., 133 lks. dist., marked T 35 S R 20 W S 24 BT. A cedar, 6 ins. diam., bears S. 80° 30' W., 145 lks. dist., marked T 35 S R 20 W S 23 BT. A cedar, 5 ins. diam., bears N. 72° 30' W., 86½ lks. dist., marked T 35 S R 20 W S 14 BT. On account of natural obstacles it is impossible to set this post over 12 ins. in the ground. Land, rolling. Soil, rocky, 3rd. rate. Timber, cedar and pinon. Undergrowth, sage brush.
	S. 89° 59' E., on a random line, bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect E. bdy. of Tp., 7 lks. S. of the cor. of secs. 13-18-19 and 24, heretofore described. Thence I run S. 89° 58' W., on a true line, Bet. secs. 13 and 24. Descend over granite ledges, granite drifts and sand through scattering timber.
6.75	Hollow, 75 ft. deep, course SE. Ascend.
14.00	Rocky spur, projects N. Descend.
17.00	Same hollow, 50 ft. deep, course NE. Ascend.

-9-

## SUBDIVISIONS OF T.35 S., R.20 W.

## CHAINS

- 39.99 Set an iron post, 3 ft. long, 1 in. dia., in mound of stone and earth, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 13 on N.half, S 24 on S.half, from which  
 A cedar, 8 ins.diam., bears N.10°E., 78 lks.dist., marked  $\frac{1}{4}$  S 13 BT.  
 A cedar, 6 ins.diam., bears S.30°W., 39 lks.dist., marked  $\frac{1}{4}$  S 24 BT.  
 On account of natural obstacles it is impossible to set this post over 11 ins.in the ground.
- 49.25 Rocky ridge, bears NW.and SE.  
 Descend.
- 62.50 Same hollow, 50 ft.deep, course SE.  
 Ascend.
- 79.98 The cor.of secs.13-14-23 and 24.  
 Land, rolling.  
 Soil, rocky, and thin layer of sand over granite ledges,  
 3rd.and 4th.rate.  
 Timber, cedar and pinon.
- 
- West, on a true line, betsecs.14 and 23.  
 Gradual ascent over rolling and rocky land, through scattering timber.
- 40.00 Set an iron post, 3 ft. long, 1 in.dia., 26 ins.in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 14 on N.half, S 23 on S.half, dig pits, 18x18x12 ins., E. and W.of post, 3 ft.dist., and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high, N.of cor.
- 47.26 Intersect Utah-Nevada Boundary Line, 4.96 chs.S.0°04'W.  
 from the 248th.mile post, heretofore described.  
 Set an iron post, 3 ft.long, 2 ins.diam., 24 ins.in the ground, for closing cor.of secs.14 and 23, marked on brass cap NCC248 M on W.half,  
 U T 35 S R 20 W S 14 and S 23 on E.half,  
 from which ..

## SUBDIVISIONS OF T.35 S., R.20 W.

## CHAINS

A cedar, 6 ins. diam., bears N.15°E., 28 lks.dist., marked T 35 S R 20 W S 14 BT.

A cedar, 9 ins. diam., bears S.63°E., 157 lks.dist., marked T 35 S R 20 W S 23 BT.

Land, rolling.

Soil, rocky, 3rd. rate.

Timber, cedar and pinon.

July 19: At this cor. I set off 20°53'N., on decl.arc, and at 0h.06m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 37°46'N.

N.0°01'W., bet. secs. 13 and 14.

Descend over rolling and rocky land, through scattering timber.

15.00 Hollow, 24 ft. deep, course SE.

Ascend.

29.00 Top of low ridge, bears NW. and SE.

Gradual descent.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 14 on W. half, S 13 on E. half, from which

A cedar, 6 ins. diam., bears S.62°30'W., 62 lks.dist., marked  $\frac{1}{4}$  S 14 BT.

A cedar, 8 ins. diam., bears N.43°30'E., 73 $\frac{1}{2}$  lks.dist., marked  $\frac{1}{4}$  S 13 BT.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., in mound of stone and earth, for cor. of secs. 11-12-13 and 14, marked on brass cap, T 35 S S 11 in NW.,

R 20 W S 12 in NE.,

S 13 in SE. and

S 14 in SW. quadrant, from which

A cedar, 5 ins. diam., bears N.27°E., 34 lks.dist., marked T 35 S R 20 W S 12 BT.

A cedar, 8 ins. diam., bears S.51°E., 68 lks.dist.,

## SUBDIVISIONS OF T. 35 S., R. 20 W.

CHAINS

marked T 35 S R 20 W S 13 BT.

A cedar, 8 ins. diam., bears S. 48° W., 73 lks. dist.,  
marked T 35 S R 20 W S 14 BT.

A cedar, 8 ins. diam., bears N. 60° W., 77 lks. dist.,  
marked T 35 S R 20 W S 11 BT.

On account of natural obstacles it is impossible to set  
this post over 12 ins. in the ground.

Land, rolling.

Soil, rocky, 3rd. rate.

Timber, cedar and pinon.

N. 89° 58' E., on a random line, bet. secs. 12 and 13.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.02 Intersect E. bdy. of Tp., 18 lks. S. of the cor. of secs.  
7-12-13 and 18, heretofore described.

Thence I run

S. 89° 50' W., on a true line,

Bet. secs. 12 and 13.

Ascend over rolling and rocky land, through scattering  
timber.

40.01 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground,  
for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 12 on N. half,  
S 13 on S. half, from which

A cedar, 7 ins. diam., bears N. 41° E., 21 lks. dist.,  
marked  $\frac{1}{4}$  S 12 BT..

A cedar, 10 ins. diam., bears S. 59° W., 70 lks. dist.,  
marked  $\frac{1}{4}$  S 13 BT.

80.02 The cor. of secs. 11-12-13 and 14.

Land, rolling.

Soil, rocky, 3rd. rate.

Timber, cedar and pinon.

## SUBDIVISIONS OF T. 35 S., R. 20 W.

CHAINS	
	West, on a true line, bet. secs. 11 and 14.
	Ascend over rocky land, through heavy timber.
19.00	Begin abrupt ascent, bears N. and S.
23.80	Rocky ridge, bears N. and S.
	Abrupt descent.
39.74	Intersect Utah-Nevada Boundary Line, 3.27 chs., S. $5^{\circ}42'W.$ , from the 247th. mile post, heretofore described.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for closing cor. of secs. 11 and 14, marked on brass cap NCC247 M on W. half, and
	U T 35 S R 20 W 00 S 11 S 14 on E. half, from which
	A cedar, 8 ins. diam., bears N. $79^{\circ}30'E.$ , 82 lks. dist., marked T 35 S R 20 W S 11 BT.
	A cedar, 5 ins. diam., bears S. $59^{\circ}30'E.$ , 88 lks. dist., marked T 35 S R 20 W S 14 BT.
	Land, rolling and mountainous.
	Soil, rocky, 3rd. rate.
	Timber, cedar and pinon.
	Mountainous land or heavily timbered land on 39.74 chs.
	July 19, 1909
	July 20: At 7h.06m., a.m., l.m.t., I set off $37^{\circ}47'N.$ , on lat. arc, $20^{\circ}45'N.$ , on decl. arc, and determine a meridian with the solar at the cor. of secs. 11-12-13 and 14.
	Thence I run
	N. $0^{\circ}01'W.$ , bet. secs. 11 and 12.
	Gradual ascent over rolling land, through heavy timber.
36.00	Ridge, bears NE. and SW.
	Descend.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 11 on W. half, S 12 on E. half, from which

## SUBDIVISIONS OF T.35 S., R.20 W.

## CHAINS

A cedar, 10' ins. diam., bears N.87° E., 50 lks. dist., marked  $\frac{1}{4}$ ' S 12 BT.

A cedar, 6' ins. diam., bears N.87° W., 35 lks. dist., marked  $\frac{1}{4}$ ' S 11 BT.

59.75 Hollow, 75 ft. deep, course E.

Ascend.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., in mound of stone and earth, for cor. of secs. 1-2-11 and 12, marked on brass cap T 35 S S 2 in NW.,

R 20 W S 1 in NE.,

S 12 in SE. and

S 11 in SW. quadrant, from which

A cedar, 5 ins. diam., bears N.73° E., 86 lks. dist., marked T 35 S R 20 W S 1 BT.

A cedar, 6 ins. diam., bears S.41° 30' E., 39 lks. dist., marked T 35 S R 20 W S 12 BT.

A cedar, 8 ins. diam., bears S.49° W., 126 lks. dist., marked T 35 S R 20 W S 11 BT.

A cedar, 9 ins. diam., bears N.61° W., 54 lks. dist., marked T 35 S R 20 W S 2 BT.

On account of natural obstacles it is impossible to set this post over 12 ins. in the ground,

Land, rolling.

Soil, rocky, 3rd. rate.

Timber, cedar and pinon.

Heavily timbered land on 80.00 chs.

N.89° 50' E., on a random line, bet. secs. 1 and 12.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.96 Intersect E. bdy. of Tp., 14 lks. N. of the cor. of secs.

1-6-7 and 12, heretofore described.

Thence I run

S.89° 56' W., on a true line,

Bet. secs. 1 and 12.

## SUBDIVISIONS OF T. 35 S., R. 20 W.

CHAINS	
	Ascend over rolling and rocky land, through heavy timber.
39.98	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 1 on N. half, S 12 on S. half, from which
	A cedar, 15 ins. diam., bears N. 78° E., 18 lks. dist., marked $\frac{1}{4}$ S 1 BT.
	A cedar, 10 ins. diam., bears S. 17° W., 42 lks. dist., marked $\frac{1}{4}$ S 12 BT.
64.00	Ridge, bears NW. and SE.
	Descend.
77.00	Hollow, 50 ft. deep, course SE.
	Ascend.
79.96	The cor. of secs. 1-2-11 and 12.
	Land, rolling.
	Soil, rocky, 3rd. rate.
	Timber, cedar and pinon.
	Heavily timbered land on 79.96 chs.
	West, on a true line, bet. secs. 2 and 11.
	Ascend over rocky land, through heavy timber.
3.00	Ridge, bears NE. and SW.
	Descend.
26.00	Hollow, 50 ft. deep, course NE.
	Ascend.
36.88	Intersect Utah-Nevada Boundary Line, 2.60 chs., S. 1° 53' W., from the 246th. mile post, heretofore described.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 2 and 11, marked on brass cap, CCN 246 M on W. half, and
	U T 35 S R 20 W C S 2 S 11 on E. half,
	from which
	A cedar, 9 ins. diam., bears N. 76° E., 17 lks. dist., marked T 35 S R 20 W S 2 BT.
	A cedar, 6 ins. diam., bears S. 23° E., 69 lks. dist.,

## SUBDIVISIONS OF T.35 S., R.20 W.

## CHAINS

marked T 35 S R 20. W S 11 BT.

Land, rolling.

Soil, rocky, 3rd. rate.

Timber, cedar and pinon.

Heavily timbered land on 36.88 chs.

July 20: At this cor. I set off  $20^{\circ}42'N.$ , on decl. arc, and at 0h.06m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $37^{\circ}48'N.$

Knowing the line bet. secs. 1 and 2 will not close within limits on the N.bdy. of the Tp., I run

$N.0^{\circ}01'W.$ , on a true line,

Bet. secs. 1 and 2.

Ascend through heavy timber.

3.25 Ridge, bears NE. and SW.

Descend.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4} S 2$  on W.half, S 1 on E.half, from which,  
A cedar, 28 ins. diam., bears  $S.20^{\circ}E.$ , 7 lks.dist.,  
marked  $\frac{1}{4} S 1$  BT.

A cedar, 6 ins. diam., bears  $S.40^{\circ}30'W.$ , 17 lks.dist.,  
marked  $\frac{1}{4} S 2$  BT.

44.00 Leave timber, bears E. and W.

51.00 Hollow, 100 ft. deep, course NE.

Ascend.

56.00 Enter heavy timber, bears NE. and SW.

61.00 Spur, projects SE.

Descend.

67.00 Hollow, 75 ft. deep, course SE.

Ascend.

70.00 Spur, projects SE.

Descend.

## SUBDIVISIONS OF T. 35 S., R. 20 W.

CHAINS	
77.00	Hollow, 50 ft. deep, course NE. Ascend.
79.00	Spur, projects E. Descend.
80.00	Leave timber, bears NW. and SE. Enter bottom of wide hollow, 100 ft. deep, course SE. Over level land.
81.34	Intersect N.bdy. of Tp., 5.45 chs. E. of the cor. of secs. 1-2-35 and 36, heretofore described. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for closing cor. of secs. 1 and 2, marked on brass cap T 34 S R 20 W CCS 35 S 36 on N. half, and C 2 S 1 T 35 S R 20 W on S. half, from which A cedar, 8 ins. diam., bears S. 9° 30' E., 231 lks. dist., marked T 35 S R 20 W S 1 BT. A cedar, 9 ins. diam., bears S. 19° 30' W., 184 lks. dist., marked T 35 S R 20 W S 2 BT. I destroy all marks on the cor. of secs. 1-2-35 and 36, that pertain to T. 35 S.
	Land, rolling. Soil, rocky, 3rd. rate. Timber, cedar and pinon. Heavily timbered land on 68.00 chs.

July 20, 1909

## GENERAL DESCRIPTION.

This township lies at the western edge of Escalante Valley and the surface is rolling and rocky, covered with a scattering growth of cedar and pinon timber. The only land in the township capable of producing crops with irrigation is situated in the hollow, which runs

GENERAL DESCRIPTION OF T.35 S., R.20 W.

through the southern portion of the township.

The San Pedro, Los Angeles and Salt Lake Railroad, runs through the southern portion of the township.

There are no settlers in this township.

There are no indications of mineral, oil, oil springs oil seeps or wells in this township.

*Frank P. Roberts*  
U.S. Deputy Surveyor

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**Page**

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by \_\_\_\_\_, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_

showing the respective capacities in which they acted:

or list of names and final oath of assistants see book "Z" <sup>15</sup>, "Chainman."

T. 34 S., R. 12 W. \_\_\_\_\_, "Chainman."

\_\_\_\_\_, "Moundman."

\_\_\_\_\_, "Moundman."

\_\_\_\_\_, "Axman."

\_\_\_\_\_, "Axman."

\_\_\_\_\_, "Flagman."

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted \_\_\_\_\_, United States Deputy Surveyor, in surveying all those parts or portions of the \_\_\_\_\_

of the \_\_\_\_\_

meridian, \_\_\_\_\_ of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for \_\_\_\_\_

\_\_\_\_\_, "Chainman."

\_\_\_\_\_, "Chainman."

\_\_\_\_\_, "Moundman."

\_\_\_\_\_, "Moundman."

\_\_\_\_\_, "Axman."

\_\_\_\_\_, "Axman."

\_\_\_\_\_, "Flagman."

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190 \_\_\_\_\_



## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..... United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ..... bearing date of the ..... day of ..... 190 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ..... the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of ..... For final oath of deputy see book "Z 15" T. 34 S. R. 12 E. .... of the ..... meridian, in the ..... which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

*United States Deputy Surveyor*

Subscribed by said ..... and sworn to before me }  
this ..... day of ..... 190 }

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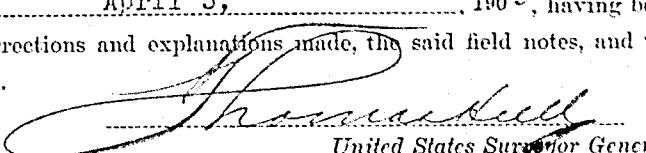
## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1910.

The foregoing field notes of the survey of ..... Subdivisional lines Township 35 S. Range 20 West of the Salt Lake Base and Meridian, Utah,

executed by ..... Frank T. Roberts  
under his contract No. 313, dated April 5, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

  
*Frank T. Roberts*  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

*United States Surveyor General*

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4-670.

" P "

BOOK A-355

FILED  
DEC 31 1909

# FIELD NOTES

RE  
OF THE SURVEY OF THE

THIRD AUXILIARY GUIDE MERIDIAN,

through

TOWNSHIP NO. 34 SOUTH, RANGE NO. 18 WEST,

of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,  
under his Contract No. 313, dated April 5, 1909

Survey commenced July 21, 1909

Survey completed July 23, 1909

Res. 602 46'  
City 8 03'

**NAMES AND DUTIES OF ASSISTANTS.**

Sterling Wright, ..... Chainman

Earl V. Woolley, ..... "

W. Warren Stratton, "

Claude L. Heist, "

Eraetus E. Dalley, ..... Woundman

George B. McConnell, "

Joseph D. Foster, ..... Axman

Rodney B. Shelly, ..... Flagman

For preliminary affidavits see Book "C" Tp. 35 S., Rs. 17 and 18 W.

## BOOK A-355

## INDEX DIAGRAM.

Township 34 South, Range 18 West

6	5	4	3	2	1	7
7	8	9	10	11	12	6
18	17	10	15	14	13	5
19	20	21	22	23	24	4
30	29	28	27	26	25	3
31	32	33	34	35	36	2

Meanders Page

## PRELIMINARY OATHS OF ASSISTANTS.

WE, ..... and .....

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

, Chain

, Chain

Subscribed and sworn to before me this ..... }  
day of ..... 190 }



WE, ..... and .....

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

, Mound

, Mound

Subscribed and sworn to before me this ..... }  
day of ..... 190 }



WE, ..... and .....

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Ax

, Ax

Subscribed and sworn to before me this ..... }  
day of ..... 190 }



I, ..... do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of ..... , Flag

Subscribed and sworn to before me this ..... }  
day of ..... 190 }



## RESURVEY OF THE THIRD AUXILIARY GUIDE MERIDIAN, through T.34 S.

## CHAINS

Survey commenced, July 21, 1909 and executed with the instrument described in book "A", of this survey.

I examine the adjustments of the transit and correct the level and collimation errors: then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 33 and 34 S., Rs. 17 and 18 W., which is a granite stone, 12x12x10 ins. above ground, marked and witnessed as described by the surveyor general, in approximate latitude  $37^{\circ}54'N.$ , longitude  $113^{\circ}46'W.$ , I set off  $37^{\circ}54'N.$ , on lat. arc,  $20^{\circ}29'N.$ , on decl. arc, and at 4h.06m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

At 11h.33m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg, driven in the ground, 5 chs. N. of my station.

July 21, 1909

July 22: At 7 a.m., I lay off the azimuth of Polaris,  $1^{\circ}30'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 8h.06m., a.m., l.m.t., I set off  $37^{\circ}54'N.$  on lat. arc,  $20^{\circ}21'N.$  on decl. arc, and mark a point in the meridian, determined with the solar, by a cross on the stone already set 5 chs. N. of my station: this mark falls 0.4 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0'21''$  west and east of the meridian established by the Polaris

## RESURVEY OF THE THIRD AUXILIARY GUIDE MERIDIAN, through T.34 S.

## CHAINS

observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.30m., a.m., is N.16°00'W., the angle thus determined gives the mag.decl. 16°00' E.

From the Tp.cor.already described I run South, retracing along the E.bdy.of sec.1,at 40.00 chs.no trace can be found of the  $\frac{1}{4}$ 'sec.cor.and at 80.00 chs.no trace can be found of the cor.of secs.1-6-7-and 12,I continue my line south and find many of the corners missing and at 482.46 chs. the re-established cor.of Tps.34 and 35 S.,Rs.17 and 18°W.,heretofore described,bears E.,8.03 chs.dist. As this line is out of limits for course and distance and there being no subdivisions dependent upon it ,I re-establish it from south to north to avoid a double set of cors.on the south boundary and to put it into the same position relative to the 7th.Standard Parallel South as the original line had.

July 22, 1909

---

July 23: At 7h.06m., a.m., l.m.t., I set off .37°49'N., on lat.arc, 20°10'N., on decl.arc, and determine a meridian with the solar at the re-established cor.of Tps.34 and 35 S., heretofore described on the Third Auxiliary Guide Meridian.

Thence I run

North, resurveying bet.secs.31 and 36.

Over level land, through sparse undergrowth.

Difference between measurement of 40.00 chs., by two sets of chainmen is 2 links., position of middle point  
By 1st.set, 39.99 chs.,

By 2nd.set, 40.01 chs., the mean of which is  
Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the

## RESURVEY OF THE THIRD AUXILIARY GUIDE MERIDIAN, through T.34 S.

CHAINS	
	ground, for re-established $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 36 on W.half, S.31 on E.half, dig pits, 18x18x12 ins., N.and S.of post, 3 ft.dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft.base, 1 $\frac{1}{2}$ ft.high,W.of cor. No trace can be found of the old $\frac{1}{4}$ sec.cor. Difference between measurement of 80.00 chs., by two sets of chainmen is 4 lks., position of middle point By 1st.set, 80.02 chs., By 2nd.set, 79.98 chs., the mean of which is
80.00	Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the ground for re-established cor.of secs.25-30-31 and 36, marked on brass cap, T 34 S on N.half, R 18 W S 25 in NW., R 17 W S 30 in NE., S 31 in SE.and S 36 in SW.quadrant,dig pits, 18x18x12 ins.1in each sec. 5 $\frac{1}{2}$ ft.dist., and raise a mound of earth, 4 ft.base, 2 ft. high,W.of cor. I destroy all traces of the old sec.cor.which bears N.78°W., 6.94 chs.dist. Land, level. Soil, loam, 1st.rate. No timber. Undergrowth, sage brush.
	North, resurveying betsecs.25 and 30. Over.level land, through sparse undergrowth.
18.50	Road from Antelope Springs to Modena,bears E.and W. Difference between measurement of 40.00 chs.by two sets of chainmen is 4 lks., position of middle point, By 1st.set, 40.02 chs., By 2nd.set, 39.98 chs., the mean of which is
40.00	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for re-established $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 25 on W.half,S 30 on E.half,dig pits, 18x18x12 ins.,

## RESURVEY OF THE THIRD AUXILIARY GUIDE MERIDIAN, through T.34 S.

## CHAINS

N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

No trace can be found of the old  $\frac{1}{4}$  sec.cor.

Difference between measurement of 80.00 chs., by two sets of chainmen is 2 lks., position of middle point

By 1st.set, 79.99 chs.,

By 2nd.set, 80.01 chs., the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. dia, 24 ins. in the ground for re-established cor.of secs. 19-24-25 and 30, marked on brass cap T 24 S on N.half,

R 18 W S 24 in NW.,

R 17 W S 19 in NE.,

S 30 in SW., and

S 25 in SW.quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

I destroy all traces of the old sec.cor., which bears N.79°45'W., 7.15 chs.dist.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush.

North, resurveying bet.secs. 19 and 24.

Over level land, through sparse undergrowth.

Difference between measurement of 40.00 chs., by two sets of chainmen is 2 lks., position of middle point

By 1st.set, 40.01 chs.,

By 2nd.set, 39.99 chs., the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground, for re-established  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 24 on W.half, S 19 on E.half, dig pits, 18x18x12 ins., N. and S. of post,  $\frac{3}{4}$  ft. dist. and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft.

## RESURVEY OF THE 3RD. AUXILIARY GUIDE MERIDIAN, through T.34 S

## CHAINS

high,W.of cor.

No trace can be found of the old  $\frac{1}{4}$  sec.cor..

Difference bet.measurement of 80.00 chs., by two sets of chainmen is 4 lks., position of middle point

By 1st.set, 80.02 chs.,

By 2nd.set, 79.98 chs. the mean of which is

80.00 Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the ground for re-established cor.of secs.13-18-19 and 24, marked on brass cap,T 34 S on N.half,

R 18 W S 13 in NW.,

R 17 W S 18 in NE.,

S 19 in SE.and

S 24 in SW.quadrant,dig pits,18x18x12 ins.,in each sec.,  
5 $\frac{1}{2}$  ft.dist.,and raise a mound of earth,4 ft.base,2 ft.  
high,W.of cor.

I destroy all traces of the old sec.cor.,which bears  
N.80°30'W.,7.35 chs.dist.

Land, level.

Soil, loam, 1st.rate.

No timber.

Undergrowth, sage brush.

## North, betsecs.13 and 18.

Over level land.

25.50 Road from Milford to Modena,bears NE.and SW.

27.00 Old railroad grade,bears N.64°50'E.and S.64°50'W.

Difference between measurement of 40.00 chs., by two sets of chainmen is 6 lks., position of middle point

By 1st.set, 40.03 chs.,

By 2nd.set, 39.97 chs.,the mean of which is

40.00 Set an iron post, 3 ft.long, 11in.dia., 26 ins.in the ground,for re-established  $\frac{1}{4}$  sec.cor.,marked on brass cap  
 $\frac{1}{4}$  S 13 on W.half,S 18 on E.half,dig pits,18x18x12 ins.,

## RESURVEY OF THE THIRD AUXILIARY GUIDE MERIDIAN, through T.34 S.

	CHAINS	N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. No trace can be found of the old $\frac{1}{4}$ sec. cor. Difference between measurement of 80.00 chs., by two sets of chainmen is 4 lks., position of middle point By 1st.set, 80.02 chs., By 2nd.set, 79.98 chs., the mean of which is Set an iron post, 3 ft. long, 3 ins. dia. 24 ins. in the ground for re-established cor. of secs. 7-12-13 and 18, marked on brass cap, T 34 S on N. half, R 18 W S 12 in NW., R 17 W S 7 in NE., S 18 in SE., and S 13 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. I destroy all traces of the old cor. of secs. 7-12-13 and 18 which bears N 79° 30' W., 7.39 chs. dist. Land, level. Soil, loam, 1st. rate. No timber. July 23: At this cor. I set off 20° 07' N., on decl. arc, and at 0h.06m., p.m., l.m.t., observe the sun on the meridian the resulting lat. is 37° 52' N.
40.00		North, resurveying bet. secs. 7 and 12. Over level land, through sparse undergrowth. Difference between measurement of 40.00 chs., by two sets of chainmen is 4 lks., position of middle point By 1st.set 40.02 chs., By 2nd.set, 39.98 chs., the mean of which is Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established $\frac{1}{4}$ sec. cor., marked on brass cap

## RESURVEY OF THE THIRD AUXILIARY GUIDE MERIDIAN, through T.34 S.

## CHAINS

$\frac{1}{4}$  S. 12 on W. half, S. 7 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

No trace can be found of the old  $\frac{1}{4}$  sec. cor.

51.40 Telegraph line, bears NE. and SW.

52.12 Center of track of the San Pedro, Los Angeles and Salt Lake Railroad, bears N.86°47'E. and S.86°47'W.

Difference between measurement of 80.00 chs. by two sets of chainmen is 6 lbs., position of middle point

By 1st.set, 79.97 chs.,

By 2nd.set, 80.03 chs., the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground for re-established cor. of secs. 1-6-7 and 12, marked on brass cap T 34 S on N. half,

R 18 W S 1 in NW.,

R 17 W S 6 in NE.,

S 7 in SE. and

S 12 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

No trace can be found of the old sec. cor.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush.

North, resurveying bet. secs. 1 and 6.

Over level land, through sparse undergrowth.

Difference between measurement of 40.00 chs., by two sets of chainmen is 4 lbs., position of middle point

By 1st.set, 40.02 chs.,

By 2nd.set, 39.98 chs., the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established  $\frac{1}{2}$  sec. cor., marked on brass cap.

## RESURVEY OF THE THIRD AUXILIARY GUIDE MERIDIAN, through T.34 S.

## CHAINS

$\frac{1}{4}$  S 1 on W.half, S 6 on E.half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft.dist., and raise a mound of earth  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high, W.of cor.  
No trace can be found of the old  $\frac{1}{4}$  sec.cor.  
Difference between measurement of 82.46 chs. by two sets of chainmen is 6 lks., position of middle point  
By 1st.set, 82.49 chs.,  
By 2nd.set, 82.46 chs., the mean of which is  
82.46 Fall 8.03 chs.E.of the cor.of Tps.33 and 34 S., Rs.17 and 18 W., heretofore described.  
Set an iron post, 3 ft.long, 3 ins.diam., 24 ins.in the ground, for closing cor.of Tps.34 S., Rs.17 and 18 W., marked on brass cap T 33 S R 18 W S 36 R 17 W S 31 on N. half and  
CC S 1 R 18 W S 6 R 17 W T 34 S on S.half,  
dig pits, 30x24x12 ins., crosswise on each line, E.and W.  
4 ft. and S.of post, 8 ft.dist., and raise a mound of earth, 5 ft.base,  $2\frac{1}{2}$  ft.high, S.of cor.  
I destroy all marks on the cor.of Tps.33 and 34 S., Rs.17 and 18 W., that pertain to T.34 S.  
Land, level.  
Soil, loam, 1st.rate.  
No timber.  
Undergrowth, sage brush.

July 23, 1909

For General Description see Subdivisions of

T 34 S., R.18 W.

For table of latitude and departures; see Retracement of N. and W.bdry's. of T.34 S., R.18 W.


  
U.S. Deputy Surveyor

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by Frank T. Roberts, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of <sup>re</sup> Third Auxiliary Guide Mer. through Tps. 35 and 34 S. between Rs. 17 and 18 W. of the Salt Lake Base and Meridian, Utah, showing the respective capacities in which they acted:

<u>Sterling Wright</u>	<u>Earl V. Woolley</u>	<u>Chainman</u>
<u>W. Warren Stratton</u>	<u>Claude L. Heist</u>	<u>Chainman</u>
	<u>Erastus B. Dalley</u>	<u>Moundman</u>
	<u>George B. McConnell</u>	<u>Moundman</u>
	<u>Joseph D. Foster</u>	<u>Axman</u>
		<u>Axman</u>
	<u>Rodney B. Shelley</u>	<u>Flagman</u>

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Frank T. Roberts, United States Deputy Surveyor, in surveying all those parts or portions of the Third Auxiliary Guide Meridian, through Townships 35 and 34 South, between Ranges 17 and 18 West

of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

<u>Sterling Wright</u>	<u>Earl V. Woolley</u>	<u>Chainman</u>
<u>W. Warren Stratton</u>	<u>Claude L. Heist</u>	<u>Chainman</u>
<u>Erastus B. Dalley</u>		<u>Moundman</u>
<u>George B. McConnell</u>		<u>Moundman</u>
<u>Joseph D. Foster</u>		<u>Axman</u>
<u>Rodney B. Shelley</u>		<u>Axman</u>
		<u>Flagman</u>

scribed and sworn to before me this 23 day of July, 1909.

Frank T. Roberts



U.S. Deputy Surveyor.

## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

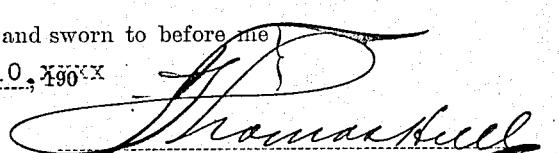
I, Frank T. Roberts, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of the 5th day of April, 1909, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the resurvey of the 3d Auxiliary Guide Meridian, through Townships 34 and 35 S., between Rs. 17 and 18 W..

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.



Frank T. Roberts  
United States Deputy Surveyor

Subscribed by said Frank T. Roberts, and sworn to before me  
this 21 day of January, 1910,



Thomas Hull  
U.S. Surveyor-General

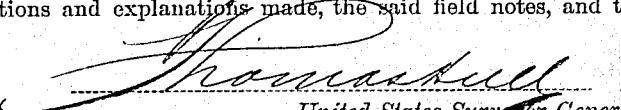
for Utah.  
APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1910.

The foregoing field notes of the Survey of Third Auxiliary Guide Meridian, Township 34 South, between Ranges 17 and 18 West of the Salt Lake Base and Meridian, Utah,

executed by Frank T. Roberts  
under his contract No. 313, dated April 5, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and their resurveys they describe, are hereby approved.



Thomas Hull  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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4-679.

" Q "

BOOK A-355

FILED

DEC 31 1909

M. S. R.

## FIELD NOTES

RETRACEMENT  
OF THE SURVEY OF THE

PART OF THE WEST AND NORTH BOUNDARIES

of

TOWNSHIP NO. 34 South, RANGE NO. 18 West.

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,

under his Contract No. 313, dated April 5, 1909

tracement

they commenced

tracement

they completed

July 24,

, 1909

July 24,

, 1909

, 1909

6-161

Ref N Dg 1-01.04

Ref W. 1-79-17

3 - 00 21

## NAMES AND DUTIES OF ASSISTANTS.

Earl V. Woolley ..... Chainman

Claude L. Heist, ..... "

W. Warren Stratton ..... Moundman

Sterling Wright, ..... "

Joseph D. Foster, ..... Axman

Rodney B. Shelley, ..... Flagman

For preliminary affidavits see book "A" T. 35 S., R. 17 W.

6-161

Volume

#

R0355

## BOOK A-355

## INDEX DIAGRAM.

Township 35 South, Range 18 West,

26	5	1	3	2	1
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18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

## PRELIMINARY OATHS OF ASSISTANTS.

WE, \_\_\_\_\_ and \_\_\_\_\_  
 do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the  
 chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that  
 we will report the true distances to all notable objects, and the true lengths of all lines that we assist in  
 measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chainman

, Chainman

Subscribed and sworn to before me this \_\_\_\_\_ }  
 day of \_\_\_\_\_, 190 }  


WE, \_\_\_\_\_ and \_\_\_\_\_  
 do solemnly swear that we will well and truly perform the duties of moundmen in the establishment  
 of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman

, Moundman

Subscribed and sworn to before me this \_\_\_\_\_ }  
 day of \_\_\_\_\_, 190 }  


WE, \_\_\_\_\_ and \_\_\_\_\_  
 do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corne  
 and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman

, Axman

Subscribed and sworn to before me this \_\_\_\_\_ }  
 day of \_\_\_\_\_, 190 }  


I, \_\_\_\_\_, do solemnly swear that I will well and truly  
 perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the  
 survey of

, Flagman

Subscribed and sworn to before me this \_\_\_\_\_ }  
 day of \_\_\_\_\_, 190 }  


## RETRACEMENT OF A PART OF NORTH BOUNDARY OF T.34 S., R.18 W.

## CHAINS

Survey commenced July 24, 1909 and executed with the instrument described in book "A", of this survey.

I know the instrument to be in adjustment from recent observations made July 21 and 22, 1909 at the SE.cor.of T.33 S. , R.18 W., and recorded in book "P", of this survey.

## Note:

These retracements include all the lines which I found in my retracement of the north and west boundaries of T.34 S., R.18 W., to exceed the limit, and hence are the only lines of this retracement returned.

At 7h.06m., a.m., l.m.t., I set off  $37^{\circ}54'N.$  on lat.arc,  $19^{\circ}58'N.$ , on decl.arc, and determine a meridian with the solar at the cor.of secs.3-4-33 and 34, which is a trachyte stone, 7x8x6 ins. above the ground, marked and witnessed as described by the surveyor general.

Thence I run

S. $89^{\circ}44'W.$ , retracing bet.secs.4 and 33.

40.35 Intersect the  $\frac{1}{4}$  sec.cor. which is a trachyte stone, 5x10x9 ins above ground, marked and witnessed as described by the surveyor general.

81.04 Intersect the cor.of secs.4-5-32 and 33, which is a trachyte stone, 8x12x6 ins. above ground, marked and witnessed as described by the surveyor general.

July 24: At this cor.I set off  $19^{\circ}54'N.$  on decl.arc, and at 0h.06m., p.m., l.m.t., observe the sun on the meridian the resulting lat.is  $37^{\circ}54'N.$

## RETRACEMENT OF A PART OF THE WEST BOUNDARY OF T.34 S., R.18 W.

CHAINS	
	From the cor. of Tps. 33 and 34 S., Rs. 18 and 19 W., which is a trachyte stone, 7x12x10 ins., above ground, marked and witnessed as described by the surveyor general.
	Thence I run
	South, retracing bet. secs. 1 and 6.
42.30	Fall 1.50 chs. W. of the $\frac{1}{4}$ sec. cor. bet. secs. 1 and 6 which is a trachyte stone, 5x8x6 ins. above ground, marked and witnessed as described by the surveyor general. The course of this line is therefore S. 2° 02'E., and the distance 42.33 chs. I offset over the $\frac{1}{4}$ sec. cor. and continue south
36.84	Fall 159 lks. E. of the cor. of secs. 1-6-7 and 12, which is a volcanic stone, 18x10x6 ins., firmly set in a mound of stone, marked and witnessed as described by the surveyor general. The course of this line is therefore S. 2° 28'W., and the distance 36.87 chs.
	South, retracing bet. secs. 7 and 12.
42.02	Fall 140 lks. W. of the $\frac{1}{4}$ sec. cor. bet. secs. 7 and 12 which is a volcanic stone, 8x14x10 ins., above ground, marked and witnessed as described by the surveyor general. The course of this line is therefore S. 1° 54'E., and the distance 42.04 chs. I offset over the $\frac{1}{4}$ sec. cor. and continue south.
38.01	Intersect the cor. of secs. 7-12-13 and 18, which is a volcanic stone, 6x10x4 ins. above ground, marked and witnessed as described by the surveyor general. The course of this line is therefore South and the distance 38.01 chs.
	July 24, 1909

## BOUNDARIES OF T. 34 S., R. 18 E.

Latitudes, departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes N. S.	Departures E. W.			
			Chs.	Chs.	Chs.	Chs.	Chs.
S.Bdy.	N.89°48'W.	487.32	1.70				487.32
W.Bdy.	North	358.01	358.01				
	N.1°54'W.	42.04	42.02				1.39
	N.2°28'E.	36.87	36.84			1.59	
	N.2°02'W.	42.33	42.30				1.50
N.Bdy.	N.89°44'E.	480.24	2.23			480.24	
	East,	8.03				8.03	
3rd.Aux. Guide Mer. or E.bdy.	South	482.46		482.46			
Convergency						0.57	
	Totals		483.10 482.46	482.46	490.33 490.21	490.21	
Error in lat.and dep.			0.64		0.22		

For general description see notes of the subdivision  
of this township.

U.S. Deputy Surveyor

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**FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.****LIST OF NAMES.**

A list of the names of the individuals employed by .....  
 ..... United States Deputy Surveyor, to assist in running, measuring, and  
 marking the lines and corners described in the foregoing field notes of the survey of .....

wing the respective capacities in which they acted:

For list of names and final oath of assistants see book "Z" <sup>14</sup>, Chainman.  
 T. 34 S., R. 12 W. ...., Chainman.  
 ...., Moundman.  
 ...., Moundman.  
 ...., Axman.  
 ...., Axman.  
 ...., Flagman.

**FINAL OATH OF ASSISTANTS.**

We hereby certify that we assisted .....  
 ..... United States Deputy Surveyor, in surveying all  
 parts or portions of the .....  
 ..... of the .....  
 ..... meridian, ..... of ..... which are represented  
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
 been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
 er monuments established, according to the instructions furnished by the United States Surveyor  
 eral for .....

....., Chainman.  
 ....., Chainman.  
 ....., Moundman.  
 ....., Moundman.  
 ....., Axman.  
 ....., Axman.  
 ....., Flagman.

scribed and sworn to before me this ..... }  
 day of ..... , 190 } .

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## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..... United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for ..... bearing date of the ..... day of ..... 190 ..... I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ..... the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of ..... For final oath of deputy see book "Z" T. 34 S. R. 13 E. .... of the ..... meridian, in the ..... which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said ..... and sworn to before me }  
this ..... day of ..... 190 }

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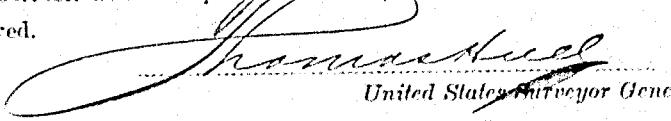
## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1910 X0

The foregoing field notes of the Survey of Retracement of West and North Boundaries of Township No. 34 South, Range No. 18 West of the Salt Lake Base and Meridian, Utah,

executed by ..... Frank T. Roberts  
under his contract No. 315, dated April 5, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the place where they describe, are hereby approved.


 United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-355

FILED

DEC 31 1909

## FIELD NOTES

OF THE SURVEY OF THE

S U B D I V I S I O N S

of

TOWNSHIP NO. 34 SOUTH, RANGE NO. 18 WEST,

Of the Salt Lake Base and Meridian,  
in the state of Utah

AS SURVEYED BY

Frank T. Roberts, United States Deputy Surveyor,  
under his Contract No. 313, dated April 5, 1909  
Survey commenced July 25, 1909  
Survey completed July 31, 1909

6-101

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## NAMES AND DUTIES OF ASSISTANTS.

Sterling Wright, Chainman

Claude L. Heist, "

Erastus B. Dalley, Moundman

George B. McConnell, "

Joseph D. Foster, Axman

Earl V. Woolley, "

Rodney B. Shelley, Flagman

For preliminary affidavits see book "E" T. 35 S., R. 17 W.

## BOOK A-355

## INDEX DIAGRAM.

*Township* ..... , *Range* .....

6	5	4	3	2	1
7	8	9	10	11	12
16	17	18	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

*Meanders Page* .....

## PRELIMINARY OATHS OF ASSISTANTS.

WE, ..... and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chainman

, Chainman

Subscribed and sworn to before me this .....  
day of ..... , 190 }



WE, ..... and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

, Moundman

, Moundman

Subscribed and sworn to before me this .....  
day of ..... , 190 }



WE, ..... and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Axman

, Axman

Subscribed and sworn to before me this .....  
day of ..... , 190 }



I, ..... do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .....

, Flagman

Subscribed and sworn to before me this .....  
day of ..... , 190 }



## SUBDIVISIONS OF T.34 S., R.18 W.

## CHAINS

Survey commenced July 25, 1909, and executed with the instrument described in book "A", of this survey.

I examine the adjustments of the transit and correct the level and collimation errors: then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the re-established cor. of secs. 1-2-35 and 36 heretofore described on the S. bdy. of the Tp., in approximate latitude  $37^{\circ}49'N.$ , longitude  $113^{\circ}47'W.$ , I set off  $37^{\circ}49'N.$ , on lat.arc,  $19^{\circ}40'N.$ , on decl.arc, and at 4h.06m., p.m. l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

At 11h.18m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground, 5 chs. N. of my station.

July 25, 1909

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July 26: At 7 a.m., I lay off the azimuth of Polaris,  $1^{\circ}29'$  to the west and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 8h.06m., a.m., l.m.t., I set off  $37^{\circ}49'N.$ , on lat.arc,  $19^{\circ}32'N.$  on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.4 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0'21''$  west and east of the meridian established by the Polaris observations; therefore I conclude that the adjustments

## SUBDIVISIONS OF T.34 S., R.18 W.

## CHAINS

of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.30m., a.m., is N.16°00'W., the angle thus determined gives the mag.decl.16°00'E.

From the sec.cor.already described, I run

N.0°01'W., betsecs.35 and 36.

Over level land, through sparse undergrowth.

40.00 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap, $\frac{1}{4}$  S 35 on W.face, S 36 on E.face, dig pits, 18x18x12 ins., N.and S.of post, 3 ft.dist., and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft. high,W.of cor.

80.00 Set an iron post, 3 ft.long, 2 ins.dia., 24 ins.in the ground, for cor.of secs.25-26-35 and 36, marked on brass cap T 34 S S 26 in NW., R 18 W S 25 in NE., S 36 in SE., and S 35 in SW.quadrant, dig pits, 18x18x12 ins., in each secs., 5 $\frac{1}{2}$  ft.dist., and raise a mound of earth, 4 ft.base, 2 ft. high,W.of cor.

Land, level.

Soil loam, 1st.rate.

No timber.

Undergrowth, sage brush and grass.

---

S.89°48'E., on a random line,betsecs. 25 and 36.

40.00 Set temp. $\frac{1}{4}$  sec.cor.

80.02 Intersect 3rd.Auxiliary Guide Meridian, 5 lks.S.of the re-established cor.of secs.25-30-31 and 36, heretofore described.

Thence I run

N.89°50'W., on a true line,

Betsecs.25 and 36.

Over level land, through sparse undergrowth.

## SUBDIVISIONS OF T. 34 S., R. 18 W.

CHAINS	
40.01	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 25 on N. half, S 36 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
80.02	The cor. of secs. 25-26-35 and 36. Land, level. Soil, loam, 1st. rate. No timber. Undergrowth, sage brush and grass.
	N. 0° 01' W., bet. secs. 25 and 26. Over level land, through sparse undergrowth.
5.68	Road from Antelope Springs to Modena, bears NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 26 on W. half, S 25 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 23-24-25 and 26, marked on brass cap T 34 S 23 in NW., R 18 W S 24 in NE., S 25 in SE., and S 26 in SW. quadrant, dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, loam, 1st. rate. No timber. Undergrowth, sage brush and grass.

## SUBDIVISIONS OF T.34 S., R.18 W.

## CHAINS

S.89°50' E., on a random line, bet. secs. 24 and 25.

40.00 Set iron  $\frac{1}{4}$  sec.cor.

79.98 Intersect 3rd Auxiliary Guide Meridian, 3 lks. N. of the re-established cor. of secs. 19-24-25 and 30, heretofore described.

Thence I run

N.89°49' W., on a true line,

Bet. secs. 24 and 25.

Over level land, through sparse undergrowth.

39.99 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 24 on N. half, S 25 on S. half, dig pits, 18x18x12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth,  $\frac{3}{4}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

79.98 The cor. of secs. 23-24-25 and 26.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and grass.

N.0°01' W., bet. secs. 23 and 24.

Over level land, through sparse undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 23 on W. half, S 24 on N. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $\frac{3}{4}$  ft. base, 1 $\frac{1}{2}$  ft. high, E. of cor.

68.50 Road from Wilford to Modena, bears NW. and SE.

69.78 Old railroad grade, bears N.84°51' E., and S.84°51' W.

80.00 Set an iron post, 3 ft. long, 2 ins. dia. 24 ins. in the ground for cor. of secs. 13-14-23 and 24, marked on brass cap T 34 S 8 14 in NW., R 18 W S 13 in NW., S 24 in SW., and

## SUBDIVISIONS OF T.34 S., R.18 W.

## CHAINS

S 23 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and bunch grass.

July 26: At this cor. I set off 19°28'N., on decl. arc, and at 0h.06m., p.m., 1m.t., observe the sun on the meridian, the resulting lat. is 37°51'N.

S.89°49'E., on a random line, bet. secs. 13 and 24.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.96 Intersect Third Auxiliary Guide Meridian, 3 lks. N. of the re-established cor. of secs. 13-18-19 and 24, heretofore described.

Thence I run

N.89°48'W., on a true line,

Bet. secs. 13 and 24.

Over level land, through sparse undergrowth.

39.98 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S. 13 on N. half, S 24 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

62.25 Old railroad grade, bears N.64°51'E. and S.64°51'W.

60.25 Road from Milford to Modena, bears NE. and SW.

79.96 The cor. of secs. 13-14-23 and 24.

Land, level.

Soil loam, 1st. rate.

No timber.

Undergrowth, sage brush.

## SUBDIVISIONS OF T.34 S., R.18 W.

## CHAINS

N.0°01'W., bet. secs. 13 and 14.

Over level land, through sparse undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 14 on W. half, S 13 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 11-12-13 and 14, marked on brass cap T 34 S S 11 in NW., R 18 W S 12 in NE., S 13 in SE., and S 14 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, loam., 1st. rate.

No timber.

Undergrowth, sage brush.

S.89°48'W., on a random line, bet. secs. 12 and 13.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.94 Intersect Third Auxiliary Guide Meridian, at the re-established cor. of secs. 7-12-13 and 18, heretofore described.

Thence I run

N.89°48'W., on a true line,

Bet. secs. 12 and 13.

Over level land.

50.97 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 12 on N. half, S 13 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

## SUBDIVISIONS OF T.34 S., R.18 W.

## CHAINS

- 79.94 The cor. of secs. 11-12-13 and 14.  
 Land, level.  
 Soil, loam, 1st. rate.  
 No timber.
- 
- N.0°01'W., bet. secs. 11 and 12.  
 Over level land.
- 38.75 Telegraph line, bears NE. and SW.
- 39.50 Center of track of the San Pedro, Los Angeles and Salt Lake Railroad, bears N.71°00'E., and S.71°00'W..
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 11 on W. half, S 12 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 1-2-11 and 12, marked on brass cap  
 T 34 S S 2° in NW.,  
 R 18-W S 1° in NE.,  
 S 12 in SE., and  
 S 11 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
- Land, level.  
 Soil, loam, 1st. rate.  
 No timber.
- 
- S.89°48'E., on a random line, bet. secs. 1 and 12.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.90 Intersect Third Auxiliary Guide Meridian, 5 lks. S. of the re-established cor. of secs. 1-6-7 and 12, heretofore described.  
 Thence I run  
 N.89°50'W., on a true line,

## SUBDIVISIONS OF T. 34 S., R. 18 W.

CHAINS	
	Bet. secs. 1 and 12
39.95	Over level land, through sparse undergrowth. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 1 on N. half, S 12 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
79.90	The cor. of secs. 1-2-11 and 12. Land, level. Soil, loam, 1st. rate. No timber. Undergrowth, sage brush and bunch grass.
	Knowing the line bet. secs. 1 and 2 will not close within limits on the N. bdy. of the Tp., I run N. $0^{\circ}01'W.$ , on a true line,
	Bet. secs. 1 and 2.
40.00	Over level land, through sparse undergrowth. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 2 on W. half, S 1 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
74.00	Road from Milford to Modena, bears NE. and SW.
81.84	Intersect N. bdy. of Tp. 82811ks. N. $89^{\circ}44'E.$ , from the cor. of secs. 1-2-35 and 36, heretofore described. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for closing cor. of secs. 1 and 2, marked on brass cap CC T 33 S S 35 R 18 W S 36 on N. half, and CC S 2 T 34 S S 1 R 18 W on S. half, dig pits, 24x18x12 ins. crosswise on each line, E. and W., 3 ft. and S. of post 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.

## SUBDIVISIONS OF T. 34 S., R. 18 W.

## CHAINS

I destroy all marks on the cor. of secs. 1-2-35 and 36, that pertain to T. 34 S.

Land level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and bunch grass.

July 26, 1909

July 27: At 7h. 06m., a.m., l.m.t., I set off  $37^{\circ}49'N.$ , on lat. arc,  $19^{\circ}19'N.$ , on decl. arc, and determine a meridian with the solar at the re-established cor. of secs. 2-3-34 and 35, heretofore described on the S. bdy. of the Tp.

Thence I run

N. $0^{\circ}01'W.$ , bet. secs. 34 and 35.

Over level land, through sparse undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 34 on W. half, S 35 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

73.75 Road from Antelope Springs to Modena, bears E. and W.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 26-27-34 and 35, marked on brass cap T. 34 S S 27 in NW., R 18 W S 26 in NE., S 35 in SE. and S 34 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and bunch grass.

## SUBDIVISIONS OF T.34 S., R.18 W.

## CHAINS

- S, 89° 48' E., on a random line, bet. secs. 26 and 35.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.08 Intersect N. and S. line, 7 lks. S. of the cor. of secs.  
 25-26-35 and 36.  
 Thence I run  
     N. 89° 51' W., on a true line,  
     Bet. secs. 26 and 35.  
 Over level land, through sparse undergrowth.  
 37.00 Road from Antelope Springs to Modena, bears NE. and SW.  
 40.04 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground  
     for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 26 on N. half,  
     S 35 on S. half, dig pits, 18x18x12 ins., E. and W. of post,  
     3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
     high, N. of cor.  
 80.08 The cor. of secs. 26-27-34 and 35.  
 Land, level.  
 Soil, loam, 1st. rate.  
 No timber.  
 Undergrowth, sage brush and bunch grass.  
 N. 0° 01' W., bet. secs. 26 and 27  
 Over level land, through sparse undergrowth.  
 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground  
     for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 27 on W. half,  
     S 26 on E. half, dig pits, 18x18x12 ins., N. and S. of post,  
     3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
     high, W. of cor.  
 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground  
     for cor. of secs. 22-23-26 and 27, marked on brass cap  
     T 34 S S 22 in NW.,  
     R 18 W S 23 in NE.,  
     S 26 in SE., and  
     S 27 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,

## SUBDIVISIONS OF T.34 S., R.18 W.

CHAINS	
	5 $\frac{1}{2}$ ft.dist., and raise a mound of earth, 4 ft.base, 2 ft.high W.of cor.
	Land, level.
	Soil, loam, 1st.rate.
	No timber.
	Undergrowth, sage brush and bunch grass.
	S.89°51'E., on a random line, betsecs.23 and 26.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.04	Intersect N.and S.line, 5 lks.N.of the cor.of secs. 23-24-25 and 26. Thence I run N.89°49'W., on a true line, Betsecs.23 and 26.
	Over level land, through sparse undergrowth.
40.02	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S. 23 on N.half, S 26 on S.half, dig pits, 18x18x12 ins., E.and W.of post, 3 ft.dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft.base, 1 $\frac{1}{2}$ ft. high, N.of cor.
80.04	The cor.of secs.22-23-26 and 27. Land, level.
	Soil, loam, 1st.rate.
	No timber.
	Undergrowth, sage brush and bunch grass.
	N.0°01'W., betsecs.22 and 23.
30.60	Over level land, through sparse undergrowth. Road from Milford to Modena, bears NE.and SW.
31.80	Old railroad grade, bears N.64°52'E., and S.64°52'W.
40.00	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 22 on W.half, S 23 on E.half, dig pits, 18x18x12 ins., N.and S.of post, 3 ft.dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft.base, 1 $\frac{1}{2}$ ft. high, W.of cor.

## SUBDIVISIONS OF T. 34 S., R. 18 W.

## CHAINS

- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 14-15-22 and 23, marked on brass cap T 34 S S 15 in NW.,  
 R 18 W S 14 in NE.,  
 S 23 in SE., and  
 S 22 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  
 Land, level.  
 Soil, loam, 1st. rate.  
 No timber.  
 Undergrowth, sage brush and bunch grass.  
 July 27: At this cor. I set off 19°15' N., on decl. arc, and at Oh. 06m., p.m., l.m.t., observe the sun on the meridian the resulting lat. is 37°51' N.
- 
- S. 89°49' E., on a random line, bet. secs. 14 and 23.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.00 Intersect N. and S. line, 3 lks. N. of the cor. of secs. 13-14-23 and 24.  
 Thence I run  
 N. 89°48' W., on a true line,  
 Bet. secs. 14 and 23.  
 Over level land, through sparse undergrowth.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 14 on N. half, S 23 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.
- 80.00 The cor. of secs. 14-15-22 and 23.  
 Land, level.  
 Soil, loam, 1st. rate.  
 No timber.  
 Undergrowth, sage brush and bunch grass.
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## SUBDIVISIONS OF T. 34 S., R. 18 W.

## CHAINS

N. $0^{\circ}01'W.$ , bet. secs. 14 and 15.

Over level land.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 15 on W. half, S 14 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. dia, 24 ins. in the ground, for cor. of secs. 10-11-14 and 15, marked on brass cap, T 34 S S 10 in NW., R 18 W S 11 in NE., S 14 in SE. and S 15 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, loam, 1st. rate.

No timber or undergrowth.

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S. $89^{\circ}48'W.$ , on a random line, bet. secs. 11 and 14.

40.00 Set temp.  $\frac{1}{4}$  sec.cor.

80.04 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 11-12-13 and 14.

Thence I run

N. $89^{\circ}50'W.$ , on a true line,

Bet. secs. 11 and 14.

Over level land.

40.02 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 11 on N. half, S 14 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

80.04 The cor. of secs. 10-11-14 and 15.

## SUBDIVISIONS OF T. 34 S., R. 18 W.

CHAINS	
	Land, level.
	Soil, loam, 1st. rate.
	No timber or undergrowth.
	N. 0°01' W., bet. secs. 10 and 11.
	Over level land, through sparse undergrowth.
11.04	Telegraph line, bears NE. and SW.
11.83	Center of track of the San Pedro, Los Angeles and Salt Lake Railroad, bears N. 71°02' E., and S. 71°02' W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 10 on W. half, S 11 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 2-3-10 and 11, marked on brass cap, T 34 S S 3 in NW., R 18 W S 2 in NE., S 11 in SE., and S 10 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, level.
	Soil, loam, 1st. rate.
	No timber.
	Undergrowth, sage brush and bunch grass.
	S. 89°50' E., on a random line, bet. secs. 2 and 11.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line, 3 lks. S. of the cor. of secs. 1-2-11 and 12.
	Thence I run

## SUBDIVISIONS OF T.34 S., R.18 W.

## CHAINS

N. $89^{\circ}51'W.$ , on a true line,

Bet. secs. 2 and 11.

Gradual ascent through sparse undergrowth.

40.01 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 2 on N. half, S 11 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

80.02 The cor. of secs. 2-3-10 and 11.

Land, sloping east.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and bunch grass.

Knowing the line bet. secs. 2 and 3 will not close within limits on the north boundary of the Tp., I run

N. $0^{\circ}01'W.$ , on a true line,

Bet. secs. 2 and 3.

Gradual ascent, through sparse undergrowth.

16.00 Road from Milford to Modena, bears NE. and SW.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 3 on W. half, S 2 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

81.27 Intersect N. bdy. of Tp., 8.34 chs., N. $89^{\circ}44'W.$ , of the cor. of secs. 2-3-34 and 35, which is a granite stone, 6x10x5 ins. above ground, marked and witnessed as described by the surveyor general.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 2 and 3, marked on brass cap GGT33 S S 34 R 18 W S 35 on N. half, and S 3 T 34 S S 2 R 18 W on S. half, dig pits, 24x18x12 ins., crosswise on each line, E. and W.

## SUBDIVISIONS OF T.34 S., R.18 W.

## CHAINS

3 ft. and S. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.

I destroy all marks on the cor. of secs. 2-3-34 and 35, that pertain to T.34 S.

Land, sloping south.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and bunch grass.

July 27, 1909

July 28: At 7h.06m., a.m., l.m.t., I set off  $37^{\circ}49'N.$ , on lat. arc,  $19^{\circ}05'N.$ , on decl. arc, and determine a meridian with the solar at the re-established cor. of secs. 3-4-33 and 34 heretofore described on the S.bdy. of the Tp.

Thence I run

$N.0^{\circ}02'W.$ , bet. secs. 33 and 34.

Over level land, through sparse undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 33 on W. half, S 34 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

66.25 Road from Antelope Springs to Modena, bears E. and W.

75.00 Enter bottom of dry lake bed, bears NE. and SW.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 27-28-33 and 34, marked on brass cap  
T 34 S S 28 in NW.,  
R 18 W S 27 in NE.,  
S 34 in SE. and  
S 33 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, loam, 1st. rate.

No timber. Undergrowth, sage brush and bunch grass.

## SUBDIVISIONS OF T. 34 S., R. 18 W.

CHAINS	S.89°48'W., on a random line, bet. secs. 27 and 34.
40.00	Set temp. $\frac{1}{2}$ sec.cor.
80.02	Intersect N. and S. line, 7 lms. S. of the cor. of secs. 26-27-34 and 35.  Thence I run  N.89°51'W., on a true line,  Bet. secs. 27 and 34.  Over level land, through sparse undergrowth.
40.01	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 27 on N.half, S 34 on S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
76.00	Enter bottom of dry lake bed, bears NE. and SW.
80.02	The cor. of secs. 27-28-33 and 34.  Land, level.  Soil, loam, int. rate.  No timber.  Undergrowth, sage brush and bunch grass.
	N.0°02'W., bet. secs. 27 and 28.  Over level land in bottom of dry lake bed.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 28 on W.half, S 27 on E.half, dig pits, 18x18x12ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
73.40	Road from Willford to Modena, bears NE. and SW.
74.20	Old railroad grade, bears N.64°52'W., and S.64°52'W.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 21-22-27 and 28, marked on brass cap T 34 S S 21 in NW., R 18 W S 22 in NE., S 27 in SE. and

## SUBDIVISIONS OF T. 34 S., R. 18 W.

CHAINS	
	S 28 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, level.
	Soil, loam, 1st. rate.
	No timber or undergrowth.
	<hr/>
	S. 89° 51' E., on a random line, bet. secs. 22 and 27.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 22-23-26 and 27.
	Thence I run
	N. 89° 50' W., on a true line,
	Bet. secs. 22 and 27.
	Over level land, through sparse undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 22 on N. half, S 27 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
65.80	Road from Milford to Modena, bears NE. and SW.
67.68	Old railroad grade, bears N. 64° 52' E., and S. 64° 52' W.
80.00	The cor. of secs. 21-22-27 and 28.
	Land level.
	Soil, loam, 1st. rate.
	No timber.
	Undergrowth, sage brush.
	<hr/>
	N. 0° 02' W., bet. secs. 21 and 22.
	Over level land, in bottom of old lake bed, through sparse undergrowth.
28.00	Leave lake bed, bears NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the

## SUBDIVISIONS OF T. 34 S., R. 18 W.

## CHAINS

- ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 21 on E. half S 22 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 15-16-21 and 22, marked on brass cap T 34 S. S. 16 in NW., R 18 W S 15 in NE., S 22 in SE., and S 21 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
- Land, level.
- Soil, loam, 1st. rate.
- No timber.
- Undergrowth sage brush
- July 28: At this cor. I set off  $19^{\circ}02'N.$ , on decl. arc, and at Oh. 06m., p.m., 1.m.t., observe the sun on the meridian the resulting lat. is  $37^{\circ}51'N.$
- 
- S.  $89^{\circ}50'E.$ , on a random line, bet. secs. 15 and 22.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 80.04 Intersect N. and S. line, 3 lks. N. of the cor. of secs. 14-15-22 and 23.
- Thence I run
- N.  $89^{\circ}49'W.$ , on a true line,
- Bet. secs. 15 and 22.
- Over level land, through sparse undergrowth.
- 40.02 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 15 on N. half, S 22 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 80.04 The cor. of secs. 15-16-21 and 22.

## SUBDIVISIONS OF T. 34 S., R. 18 W.

## CHAINS

Land, level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush.

N. 0° 02' W., bet. secs. 15 and 16.

Over level land, through sparse undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 16 on W. half S 15 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

63.44 Telegraph line, bears NE. and SW.

64.19 Center of track of the San Pedro, Los Angeles and Salt Lake Railroad, bears N. 71° 02' E., and S. 71° 02' W.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 9-10-15 and 16, marked on brass cap, T 34 S S 9 in NW.,  
R 18 W S 10 in NE.,  
S 15 in SE., and  
S 16 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land level.

Soil, loam, 1st. rate.

No timber.

Undergrowth, sage brush and grass.

S. 89° 49' E., on a random line, bet. secs. 10 and 15.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.06 Intersect. N. and S. line, 21 lks. S. of the cor. of secs. 10-11-14 and 15.

Thence I run

## SUBDIVISIONS OF T.34 S., R.18 W.

CHAINS	
	N.89°58'W., on a true line, Bet. secs. 10 and 15. Over level land, through sparse undergrowth.
32.16	Telegraph line, bears NE. and SW.
33.67	Escalante Siding of the S.P., J.A. and S.L. Railroad, bears N.71°02'E., and S.71°02'W.
34.41	Center of track of the San Pedro, Los Angeles and Salt Lake Rail road, bears N.71°02'E., and S.71°02'W.
40.03	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 10 on N.half, S 15 on S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N.of cor. From this $\frac{1}{4}$ sec.cor. the post marked " Escalante" on the railroad, bears S.26°30'E., 167 lks.dist.
80.06	The cor. of secs. 9-10-15 and 16. Land, level. Soil, loam, 1st. rate. No timber. Undergrowth, sage brush and grass.
	N.0°02'W., bet. secs. 9 and 10. Gradual ascent through sparse undergrowth.
36.00	Road from Wilford to Modena, bears NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 9 on W.half, S 10 on E.half, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W.of cor. Pits impracticable.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 3-4-9 and 10, marked on brass cap, T.34 S 8 4 in NW., R 18 W S 3 in NE., S 10 in SE., and

## SUBDIVISIONS OF T.34 S., R.18 W.

## CHAINS

S.9 in SE quadrant, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Pit impracticable.

Land, sloping south.

Soil, loam, 1st. rate on 36.00 chs.  
balance rocky, 3rd. rate.

No timber.

Undergrowth, sage brush.

S.89°58' E., on a random line, bet. secs. 3 and 10.

40.00 Set temp.  $\pm$  sec.cor.

80.02 Intersect N. and S. line, 5 lks. N. of the cor. of secs.  
2-3-10 and 11.

Thence I run

N.89°56' W., on a true line,

Bet. secs. 3 and 10.

Gradual ascent over rolling land, through sparse  
undergrowth.

20.75 Road from Milford to Modena, bears NE. and SW.

40.01 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground,  
for  $\pm$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 3 on N. half,  
S 10 on S. half, dig pit, 18x18x12 ins., E. and W. of post,  
3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
high, N. of cor.

80.02 The cor. of secs. 3-4-9 and 10.

Land, rolling.

Soil, rocky loam, 2nd. rate.

No timber.

Undergrowth, sage brush and bunch grass.

Knowing the line bet. secs. 3 and 4 will not close within  
limits on the N. bdy. of the ty., I run

N.0°02' W., on a true line,

Bet. secs. 3 and 4.

## SUBDIVISIONS OF T. 34 S., R. 18 W.

## CHAINS

- Arcend over rolling and rocky land, through sparse undergrowth.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 4 on W.half, S 3 on E.half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W.of cor.
- 80.91 Intersect N.bdy. of Tp., 8.25 cha. N. $89^{\circ}44'W.$  from the cor. of secs. 3-4-33 and 34, which is a trachyte stone, 7x8x6 ins. above ground, marked and witnessed as described by the surveyor general.
- Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for closing cor. of secs. 3 and 4, marked on brass cap CC T 33 S S 33 R 18 W S 34 on N.half, and S 4 T 34 S S 3 R 18 W on S.half, dig pits, 24x18x12 ins., crosswise on each line, E. and W. 3 ft. and S. of post, 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, S.of cor.
- I destroy all marks on the cor. of secs. 3-4-33 and 34, that pertain to T.34 S.
- Land, rolling.
- Soil, rocky loam, 2nd. rate.
- No timber.
- Undergrowth, sage brush.

July 28, 1909

July 29: At 7h.06m., a.m., l.m.t., I set off  $37^{\circ}49'N.$ , on lat.arc,  $18^{\circ}51'N.$ , on decl.arc, and determine a meridian with the solar at the re-established cor. of secs. 4-5-32 and 33, heretofore described on the S.bdy. of the township.

Thence I run

N. $0^{\circ}03'W.$ , bet. secs. 32 and 33.

the last day, which was yesterday.  
The first four specimens were taken from 37. and 40.  
The first day we took about 100000 mites, or less, in the ground,  
the second, there were about 100000, or 20 or 30000,  
the third, 20000, and the fourth, 100000, and 200000  
respectively, and after a night of rest, 100000, 100000,  
100000.

The first three days after sunrise at 0600, hours 1, and 2,  
and after sunset, hours 3, and 4.  
The last four days about 100000 mites, or less, in the  
ground, the number remaining constant and distributed as before up  
to the 20th of May.

On the 21st of May,

we took 100000, or less, mites, in each case,  
at 0600, and after a night of rest, 100000, 100000, 100000,  
100000.

On the 22nd,

100000, 100000,

100000.

Afterwards, we took 100000 and 100000.

On the 23rd, we took 100000, 100000, and 100000.

On the 24th, 100000.

On the 25th, 100000, 100000, 100000, and 100000.  
On the 26th, 100000.

On the 27th,

100000, 100000, 100000,

100000, 100000.

On the 28th, 100000, 100000, 100000.

On the 29th, 100000, 100000, 100000, or less, in the ground,  
the number remaining constant, 100000, 100000, 100000,  
100000, 100000, 100000, 100000, 100000, 100000, 100000.

## SUBDIVISIONS OF T. 34 S., R. 18 W.

CHAINS	
	3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
79.96	The cor. of secs. 28-29-32 and 33. Land, level lake bed. Soil, loam, 1st. rate. No timber or undergrowth.
	N. $0^{\circ}03'W.$ , bet. secs. 28 and 29. Over level lake bed.
35.60	Road from Milford to Modena, bears NE. and SW.
36.50	Old railroad grade, bears N. $64^{\circ}58'E.$ , and S. $64^{\circ}58'W.$ .
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 29 on W. half, S 28 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
50.00	Leave dry lake bed, bears NE. and SW. Enter sparse undergrowth.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 20-21-28 and 29, marked on brass cap T 34 S 20 in NW., R 18 W S 21 in NE., S 28 in SE., and S 29 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, loam, 1st. rate. No timber. Undergrowth, sage brush.

## SIGHTINGS OF T.34 S., R.18 W.

## CHAINS

S.89°49'W., on a random line, bet. secn. 21 and 28.

42.00 Set temp. & sec. cor.

40.00 Intersect N. and S. line, 3 lns. N. of the cor. of secn.  
21-22-27 and 28.

Thence I run

N.89°48'W., on a true line,

Bet. secn. 21 and 28.

Over level land, in dry lake bed.

40.03 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground  
for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 21 on N. half,  
S 28 on S. half, dig pitn. 18x18x12 ins., N. and W. of post,  
3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft.  
high, N. of cor.

48.00 Leave lake bed, bears NE. and SW.

Enter sparse undergrowth.

40.05 The cor. of secn. 20-21-28 and 29.

Land level.

Soil, loam, lat. rate.

No timber.

Undergrowth, sage brush.

N.0°03'W., bet. secn. 20 and 21.

Over level land, through sparse undergrowth.

42.03 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground  
for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 20 on N. half,  
S 21 on E. half, dig pitn. 18x18x12 ins., N. and S. of post,  
3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft.  
high, E. of cor.

40.00 Set an iron post, 3 ft. long, 2 in. dia., 24 ins. in the ground  
for cor. of secn. 16-17-20 and 21, marked on brass cap,  
 $\frac{1}{4}$  T 34 S 17 in NW.,  
N 18 E 15 in NE.,  
S 21 in SE., and  
S 20 in SW. (part of secn. 21), dig pitn. 18x18x12 ins., in each secn..

## SUBDIVISIONS OF T.34 S., R.18 W.

CHAINS	
	5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, level.
	Soil, loam, 1st. rate.
	No timber.
	Undergrowth, sage brush.
	S. 89° 48' E., on a random line, bet. secs. 16 and 21.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.98	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 15-16-21 and 22.
	Thence I run
	N. 89° 50' W., on a true line,
	Bet. secs. 16 and 21.
	Over level sandy land, through sparse undergrowth.
39.99	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 16 on N. half, and S 21 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
79.98	The cor. of secs. 16-17-20 and 21.
	Land, level.
	Soil, loam, 1st. rate.
	No timber.
	Undergrowth, sage brush.
	July 29: At this cor. I set off 18° 47' N., on decl. arc, and at 0h.06m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 37° 51' N.
	N. 0° 03' W., bet. secs. 16 and 17.
	Over level land, through sparse undergrowth.
21.08	Telegraph line, bears NE. and SW.
21.88	Center of track of the San Pedro, Los Angeles and Salt

## SUBDIVISIONS OF T.34 S., R.18 W.

## CHAINS:

- Lake Railroad, bears N. $60^{\circ}43' E.$ , and S. $60^{\circ}43' W.$
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 17 on W.half, S 16 on E.half, dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W.of cor.
- 55.25 Road from Milford to Modena, bears NE. and SW.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 8-9-16 and 17, marked on brass cap T 34 S 8 in NW., R 18 W S 9 in NE., S 10 in SE., and S 17 in SW. quadrant, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W.of cor.
- Land, level.
- Soil, loam, 1st. rate.
- No timber.
- Undergrowth, sage brush.
- 
- S. $89^{\circ}50' E.$ , on a random line, bet. secs. 9 and 16.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 79.94 Intersect N. and S. line, 12 lms. S. of the co. of secs. 9-10-15 and 16.
- Thence I run  
N. $89^{\circ}55' W.$ , on a true line,  
Bet. secs. 9 and 16.
- Over level land, through sparse undergrowth.
- 82.25 Road from Milford to Modena, bears NE. and SW.
- 89.97 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 9 on N.half, S 16 on S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N.of cor.

## SUBDIVISIONS OF T. 34 S., R. 18 W.

## CHAINS

- 79.94 The cor. of secs. 8-9-16 and 17.  
Land, level.  
Soil, loam, 1st. rate.  
No timber.  
Undergrowth, sage brush.
- 
- N.0°03'W., bet. secs. 8 and 9.
- Ascend over rolling land, through sparse undergrowth.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground  
for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 8 on W.half,  
S 9 on E.half, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$   
ft. high, W.of cor.  
Pits impracticable.  
Thence over rocky land.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., in mound of stone  
and earth, for cor.of secs. 4-5-8 and 9, marked on brass cap  
T 34 S S 5 in NW.,  
R 18 W S 4 in NE.,  
S 9 in SE., and  
S 8 in SW.quadrant, and raise a mound of stone, 2 ft. base,  
 $1\frac{1}{2}$  ft. high, W.of cor.  
Pits impracticable.  
On account of natural obstacles it is impossible to set  
this post over 12 ins. in the ground.  
Land, rolling,  
Soil, loam, 1st. rate on 40.00 chs.  
balance rocky loam, 2nd. rate.  
No timber.  
Undergrowth, sage brush.
- 
- S.89°55'E., on a random line, bet. secs. 4 and 9.
- 40.00 Set temp. $\frac{1}{4}$  sec.cor.
- 20.12 Intersect N.and S.line, 7 lks.N. of the cor.of secs.  
3-4-9 and 10.  
Thence I run

## SUBDIVISIONS OF T. 34 S., R. 18W.

CHAINS	
	N.89°52'W., on a true line, Bet. secs. 4 and 9.
	Ascend over rolling land, through sparse undergrowth.
40.06	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 4 on N. half S 9 on S. half, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
80.92	The cor. of secs. 4-5-8 and 9. Land, rolling. Soil, rocky, 3rd. rate. No timber. Undergrowth, sage brush and bunch grass.
	Knowing the line bet. secs. 4 and 5 will not close within limits on the N. bdy. of the Tp., I run N.0°03'W., on a true line, Bet. secs. 4 and 5.
	Ascend over rolling and rocky land, through sparse undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 5 on W. face, S 4 on E. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
41.00	Begin ascent over mountainous land, along west slope.
75.00	Enter scattering timber.
80.40	Intersect N. bdy. of Tp., 9.08 chs., N.89°44'E., from the cor. of secs. 4-5-32 and 33, which is a trachyte stone, 6x12x8 ins. above ground, marked and witnessed as described by the surveyor general. Set an iron post, 3 ft. long, 2 ins. dia., in mound of stone and earth, for closing cor. of secs. 4 and 5, marked on brass

## SUBDIVISIONS OF T.34 S., R.18 W.

## CHAINS

cap CCT33S S 32 R 18 W S 33 on N.half,

S 5 T 34 S S 4 R 18 W on S.half, from which

A pinon 5 ins.diam., bears S.1°E., 133 lks.dist.,  
marked T 34 S R 18 W S 4 BT.

A cedar, 6 ins.diam., bears S.16°W., 97 lks.dist.,  
marked T 34 S R 18 W S 5 BT.

On account of natural obstacles it is impossible to set  
this post over 12 ins.in the ground.

I destroy all marks on the cor.of secs.4-5-32 and 33.  
that pertain to T.34 S.

Land, rolling and mountainous.

Soil, rocky, 3rd.rate.

Timber, cedar and pinon.

Mountainous land on 39.40 chs.

July 29, 1909

July 30: At 7h.06m., a.m., l.m.t., I set off 37°49'N., on lat.  
arc, 18°37'N., on decl.arc, and determine a meridian with  
the solar at the re-established cor.of secs.5-6-31 and  
32 , heretofore described on the S.bdy.of the Tp.

Thence I run

N.0°03'W., bet.secs.31 and 32.

Gradual ascent over rolling land, through sparse undergr-  
owth.

40.00 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground,  
for  $\frac{1}{4}$  sec.cor., marked on brass cap,  $\frac{1}{4}$  S 31 on W.half,  
S 32 on E.half,dig pits, 18x18x12 ins., N.and S.of post,  
3 ft.dist., and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.  
high, W.of cor.

53.00 Road from Newcastle to Modena, bears NW.and SE.

70.60 Road from Antelope Springs to Modena, bears E.and W.

78.00 Old railroad grade, bears N.65°00'E., and S.65°00'W.

78.64 Road from Milford to Modena, bears NE.and SW.

## SUBDIVISIONS OF T.34 S., R.18 W.

## CHAINS

- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., in mound of stone and earth, for cor. of secs. 29-30-31 and 32, marked on brass cap T 34 S S 30 in NW.,  
R 18 W S 29 in NE.,  
S 32 in SE., and  
S 31 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  
On account of natural obstacles it is impossible to set this post over 12 ins. in the ground.  
Land, rolling.  
Soil, rocky loam, 2nd. rate.  
No timber.  
Undergrowth, sage brush and bunch grass.
- 
- S.89°48'E., on a random line, bet. secs. 29 and 32.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.92 Intersect N. and S. line, 3 lks. S. of the cor. of secs. 28-29-32 and 33.  
Thence I run  
N.89°49'W., on a true line,  
Bet. secs. 29 and 32.  
Over level land, in bottom of dry lake.  
Leave lake bed, bears NW. and SE.
- 25.00 Enter sparse undergrowth.
- 39.96 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 29 on N. half, S 32 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise amount of earth, 3½ ft. base, 1½ ft. high, N. of cor.
- 75.70 Old railroad grade, bears N.65°00'E. and S.65°00'W.
- 77.00 Road from Milford to Modena, bears NE. and SW.
- 79.92 The cor. of secs. 29-30-31 and 32.

## SUBDIVISIONS OF T. 34 S., R. 18 W.

CHAINS	
	Land, level.
	Soil, loam, 1st. rate.
	No timber.
	Undergrowth, sage brush.
	<hr/>
40.00	N.89°48'W., on a random line, bet. secs. 30 and 31. Set temp. $\frac{1}{4}$ sec. cor.
87.46	Intersect W.bdy. of Tp., 9 lks.N. of the cor. of secs. 25-30-31 and 36, which is a granite stone, 9x10x7 ins. above ground, marked and witnessed as described by the surveyor general. Thence I run
	S.89°52'E., on a true line, Bet. secs. 30 and 31.
47.46	Descend over rolling land, through sparse undergrowth. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 30 on N. half, S 31 on S. half, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
76.51	Center of track of San Pedro, Los Angeles and Salt Lake Railroad, on a curve, bearing NE. and SW.
77.50	Telegraph line, bears NE. and SW.
87.46	The cor. of secs. 29-30-31 and 32. Land, rolling. Soil, rocky, 3rd. rate. No timber. Undergrowth, sage brush.
	<hr/>
	N.0°03'W., bet. secs. 29 and 30. Gradual descent over rolling land, through sparse undergrowth.
14.74	Telegraph line, bears NE. and SW.

## SUBDIVISIONS OF T. 34 S., R. 18 W.

## CHAINS

- 16.32 Center of track of San Pedro, Los Angeles and Salt Lake Railroad on curve, bears NE. and SW.
- 35.75 Wash, 50 lks. wide, 8 ft. deep, course NE.
- Begin gradual ascent.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 30 on W. half, S 29 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 19-20-29 and 30, marked on brass cap  
T 34 S S 19 in NW.,  
R 18 W S 20 in NE.,  
S 29 in SE., and  
S 30 in SW. quadrant; dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
- Land, rolling.
- Soil, rocky loam, 2nd. rate.
- No timber.
- Undergrowth, sage brush.
- July 30: At this cor. I set off 18°33' N., on decl. arc, and at 0h.06m., p.m., l.m.t. observe the sun on the meridian the resulting lat. is 37°50' N.
- 
- S. 89°49' E., on a random line, bet. secs. 20 and 29.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.96 Intersect N. and S. line, 12 lks. S. of the cor. of secs. 20-21-28 and 29.
- Thence I run
- N. 89°54' W., on a true line,
- Bet. secs. 20 and 29.
- Over level land, through sparse undergrowth.
- 39.98 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground

## SUBDIVISIONS OF T. 34 S., R. 18 W.

CHAINS	
	for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 20 on N.half, S 20 on S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft.dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft.base, 1 $\frac{1}{2}$ ft. high, N.of cor.
67.30	Telegraph line bears NE. and SW.
68.02	Center of track of San Pedro, Los Angeles and Salt Lake Railroad, bears N.6°41' E., and S.6°41' W.
79.96	The cor.of secs. 19-20-29 and 30. Land, level. Soil, loam, 1st. rate. No timber. Undergrowth, sage brush.
	N.89°52' W., on a random line, bet. secs. 19 and 30.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
87.39	Intersect W.bdy. of the Tp., 5 lks.S. of the cor.of secs. 19-24-25 and 30, which is a volcanic stone, 10x10x6 ins. above the ground, marked and witnessed as described by the surveyor general. Thence I run S.89°50' E., on a true line, Bet. secs. 19 and 30. Gradual descent over rolling land, through sparse undergrowth.
6.50	Road from Milford to Modena, bears NE. and SW.
47.39	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 19 on N.half, S 30 on S.half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft.dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft.base, 1 $\frac{1}{2}$ ft. high, N.of cor.
87.39	The cor.of secs. 19-20-29 and 30. Land, rolling. Soil, loam, 1st. rate. No timber: undergrowth, sage brush.

## SUBDIVISIONS OF T. 34 S., R. 18 W.

CHAINS	
	N. 0° 03' W., bet. secs. 19 and 20. Over level land, through sparse undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S. 19 on W. half, S. 20 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
69.00	Road from Milford to Modena, bears NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 17-18-19 and 20, marked on brass cap T 34 S S 18 in NW., R 18 W S 17 in NE., S 20 in SE. and S 19 in SW. quadrant, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, level.
	Soil, loam, 1st. rate.
	No timber.
	Undergrowth, sage brush.
	S. 89° 54' E., on a random line, bet. secs. 17 and 20.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.98	Intersect N. and S. line, 7 lks. N. of the cor. of secs. 16-17-20 and 21. Thence I run N. 89° 51' W., on a true line, Bet. secs. 17 and 20.
	Over level land, through sparse undergrowth.
34.34	Telegraph line, bears NE. and SW.
35.41	Center of track of San Pedro, Los Angeles and Salt Lake Railroad, bears N. 39° 45' E., and S. 39° 45' W.
39.99	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S. 17 on N. half,

## SUBDIVISIONS OF T. 34 S., R. 18 W.

## CHAINS

S 20 on S.half, dig pits, 18x18x12 ins., E. and W. of post,  
 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
 high, N. of cor.

68.75 Road from Milford to Modena, bears NE. and SW.

79.98 The cor. of secs. 17-18-19 and 20.  
 Land, level.  
 Soil, loam, 1st. rate.  
 No timber.  
 Undergrowth, sage brush.

July 30, 1909

July 31: At 7h. 06m., a.m., l.m.t., I set off  $37^{\circ}51'N.$  on lat. arc,  $18^{\circ}22'N.$ , on decl. arc, and determine a meridian with the solar at the cor. of secs. 17-18-19 and 20.

Thence I run

N.  $89^{\circ}50'W.$ , on a random line, bet. secs. 18 and 19.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

87.09 Intersect W. bdy. of Tp., 3 lks. N. of the cor. of secs.

13-18-19 and 24, which is a volcanic stone, 20x8x4 ins., firmly set in a mound of stone, marked and witnessed as described by the surveyor general.

Thence I run

S,  $89^{\circ}51'E.$ , on a true line,

Bet. secs. 18 and 19.

Ascend over rocky and mountainous land.

5.00 Rocky spur, projects S.

Descend, along steep south slope.

31.00 Begin ascent along south slope.

47.09 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground forward  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 18 on N. half,  
 S 18 on S. half, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft.  
 high, N. of cor.

Pits impracticable.

## SUBDIVISIONS OF T. 34 S., R. 18 W.

## CHAINS

48.50 Rocky spur, projects SE.

Abrupt descent.

56.00 Leave mountainous land, bears NE. and SW.

Descend over rolling land.

87.09 The cor. of secs. 17-18-19 and 20.

Land, mountainous and rolling.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 56.00' chs.

N. 0° 03' W., bet. secs. 17 and 18.

Ascend over rolling land, through sparse undergrowth.

17.50 Wash, 20 lks. wide, 5 ft. deep, course SE.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 18 on W. half, S 17 on E. half, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 7-8-17 and 18, marked on brass cap

T 34 S 8 7 in NW. p.

R 18 W S 8 in NE.,

S 17 in SE., and

S 18 in SW. quadrant, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, rolling.

Soil, rocky, 2nd. and 3rd. rate.

No timber.

Undergrowth, sage brush.

## SUBDIVISIONS OF T. 34 S., R. 18 W.

## CHAINS

- S.89°51' E., on a random line, bet. sec. 8 and 17.
- 40.00 Set temp. & sec. cor.
- 80.00 Intersect N. end S. line, 3 lks. N. of the cor. of sec. 8-9-16 and 17.  
Thence I run  
N.89°50' W., on a true line,  
Bet. secn. 8 and 17.  
Ascend over rolling land, through sparse undergrowth.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. marked on brass cap,  $\frac{1}{2}$  S 8 on N. half,  
S 17 on S. half, dig pitn, 18x18x12 ins., E. and W. of post,  
3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft.  
high N. of cor.
- 80.00 The cor. of secn. 7-8-17 and 18.  
Land, rolling.  
Soil, rocky, 2nd. and 3rd. rate.  
No timber.  
Undergrowth, sage brush.
- 
- N.89°51' W., on a random line, bet. secn. 7 and 18.
- 40.00 Set temp. & sec. cor.
- 80.76 Intersect W. bdy of Tr., 3 lks. S. of the cor. of secn.  
7-12-13 and 18, which is a granite stone 6x10x4 ins. above  
ground, marked and witnessed as described by the surveyor  
general.
- Thence I run  
S.89°50' W., on a true line,  
Bet. secn. 7 and 18.  
Ascend over rocky and mountainous land, through scattering  
timber.
- 10.25 Hollow, 150 ft. deep, course SP.
- Ascend.
- 21.50 Spur, projects SE.  
Leave timber.

## SUBDIVISIONS OF T. 34 S., R. 18 W.

CHAINS	
	Abrupt descent.
40.50	Leave mountainous land, bears NE. and SW.
	Descend over rolling land.
46.76	Set an iron post, 3 ft. long, 1 in. dia., in mound of stone and earth, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 7 on N. half, S 18 on S. half, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
	On account of natural obstacles it is impossible to set this post over 15 ins. in the ground.
86.76	The cor. of secs. 7-8-17 and 18.
	Land, mountainous and rolling.
	Soil, rocky, 3rd. and 4th. rate.
	Timber, cedar and pinon.
	Mountainous land on 40.50 chs.
	July 31: At this cor. I set off 18° 18' N., on decl. arc, and at 0h. 06m., p.m., l.m.t., observe the sun on the meridian the resulting lat. is 37° 52' N.
	<hr/>
	N. 0° 03' W., bet. secs. 7 and 8.
	Ascend over rolling and rocky land, through sparse under-growth.
37.00	Enter scattering timber.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec.cor. marked on brass cap, $\frac{1}{4}$ S 7 on W. half, S 8 on E. half, from which
	A cedar, 8 ins. diam. bears S. 3° W., 230 lks. dist., marked $\frac{1}{4}$ S 7 BT.
	A cedar, 5 ins. diam., bears S. 14° E., 266 lks. dist., marked $\frac{1}{4}$ S 8 BT.
70.00	Begin abrupt ascent over mountainous land, bears NW. and SE.
78.00	Rocky spur, projects SE.
	Descend.

## SUBDIVISIONS OF T.34 S., R.18 W.

CHAINS	
80.00	<p>Set an iron post, 3 ft. long, 2 ins.dia., in mound of stone and earth, for cor.of secs.5-6-7 and 8, marked on brass cap T 34 S S 6 in NW., R 18 W S 5 in NE., S 8 in SE., and S 7 in SW.quadrant, from which</p> <p>A pinon, 5 ins.diam.bears N.29°30'E., 76 lks.dist., marked T 34 S R 18. W S 5 BT.</p> <p>A cedar, 6 ins.diam., bears S.18°E., 107 lks.dist., marked T 34 S R 18 W S.8 BT.</p> <p>A cedar, 8 ins.diam., bears S.79°W., 80 lks.dist., marked T 34 S R 18 W S 7 BT.</p> <p>A cedar, 6 ins.diam., bears N.37°30'W., 90 lks.dist., marked T.34 S., R.18 W., S.6 BT.</p> <p>On account of natural obstacles it is impossible to set this post over 12 ins.in the ground. Land, rolling and mountainous. Soil, rocky, 3rd.and 4th.rate. Timber, cedar and pinon. Undergrowth, sage brush and bunch grass. Mountainous land on 10.00 cha.</p> <hr/> <p>S.80°50'E., on a random line, bet.secs.5 and 8.</p>
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.02	<p>Intersect N.and S.line, 3 lks.S.of the cor.of secs. 4-5-8 and 9.</p> <p>Thence L run</p> <p>N.89°51'W., on a true line, Bet.secs.5 and 8.</p> <p>Ascend over rolling and rocky land, through sparse undergrowth.</p>
40.01	<p>Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for <math>\frac{1}{4}</math> sec.cor., marked on brass cap, <math>\frac{1}{4}</math> S 5 on N.half, S 8 on S.half, and raise a mound of stone, 2 ft.base, <math>1\frac{1}{2}</math> ft.</p>

## SUBDIVISIONS OF T. 34 S., R. 18 E.

## CHAINS

high, N. of cor.

Pits impracticable.

73.00 Enter scattering timber.

75.50 Begin abrupt ascent over mountainous land, bearing NW. and SE.

80.02 The cor. of secs. 5-6-7 and 7.

Land, rolling and mountainous.

Soil, rocky, 3rd. and 4th. rate.

Timber, cedar and pinon.

Undergrowth, sage brush and bunch grass.

Mountainous land on 4.52 cha.

N. 89°50' W., on a random line, bet. secs. 6 and 7.

40.00 Set temp. to sec. cor.

48.20 Intersect W. bdy. of Tp., 7 lks. N. of the cor. of Secs. 1-6-7 and 12, heretofore described.

Thence I run

S. 89°53' E., on a true line,

Bet. secs. 6 and 7.

Descend abruptly over rocky and mountainous land, through scattering timber.

53.25 Hollow, 500 ft. below sec. cor., course SE.

Abrupt ascent.

40.40 Spur, projects SE.

Abrupt descent.

48.20 Set an iron yon', 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor., marked on brace cap,  $\frac{1}{2}$  S 6 on N. half, S 7 on S. half, from which

A cedar, 12 ins. diam., bears S. 74° E., 61 lbs. dist., marked  $\frac{1}{2}$  S 7 BT.

A cedar, 8 ins. diam., bears N. 74° E., 163 lbs. dist., marked  $\frac{1}{2}$  S 7 BT.

51.35 Hollow, 150 ft. deep, course SE.

Abrupt ascent.

## SUBDIVISIONS OF T. 34 S., R. 18 W.

CHAINS	
69.50	Spur, projects S. Abrupt descent.
81.25	Hollow, 75 ft. deep, course SE. Abrupt ascent.
87.25	Rocky spur, projects SE. Abrupt descent.
88.29	The cor. of secs. 5-6-7 and 8. Land, mountainous. Soil, rocky, 3rd. and 4th. rate. Timber, cedar and pinon. Mountainous land on 88.29 chs.
	Knowing the line bet. secs. 5 and 6 will not close within limits on the N. bdy. of the Tp., I run N. 0° 03' W., on a true line, Bet. secs. 5 and 6. Descend abruptly over rocky and mountainous land, through scattering timber.
2.00	Hollow, 150 ft. deep, course SE. Abrupt ascent.
5.90	Spur, projects SE. Abrupt descent.
13.00	Hollow, 150 ft. deep, course SE. Abrupt ascent.
21.95	Spur, projects SE. Descend.
38.00	Hollow, 100 ft. deep, course E. Ascend.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 6 on W. half, S 5 on E. half, from which A cedar, 10 ins. dia., bears N. 26° E., 118 lks. dist., marked $\frac{1}{4}$ S 5 BT. A cedar, 6 ins. diam., bears N. 61° 30' W., 102 lks. dist.,

## SUBDIVISIONS OF T.34 S., R.18 W.

## CHAINS

	marked $\frac{1}{2}$ S 6 BT.
47.00	Spur, projects NE.
	Descend.
51.25	Hollow, 75 ft. deep, course NE.
	Ascend.
59.00	Spur, projects NE.
	Descend.
64.00	Hollow, 100 ft. deep, course NE.
	Ascend.
70.00	Spur, projects E.
	Abrupt descent.
72.00	Foot of abrupt descent, bears NW. and SE.
	Descend over rolling land.
79.66	Intersect N.bdy. of Tp., 8.99 chs. N.89°44'E., of the cor. of secs. 5-6-31 and 32, which is a granite stone, 8x12x6 ins. above the ground, marked and witnessed as described by the surveyor general.  Set an iron post, 3 ft. long, 2 ins. dia., in mound of stone and earth, for closing cor. of secs. 5 and 6, marked on brass cap, CCT33 S S 31 R 18 W S 32 on N.half, and " S 2 T 34 S S 1 R 18 W on S.half, from which A cedar, 5 ins. diam., bears S.29°E., 48 lks.dist., marked T 34 S R 18 W S 5 BT.  A cedar, 6 ins. diam., bears S.69°W., 45 lks.dist., marked T 34 S R 18 W S 6 BT.  On account of natural obstacles it is impossible to set this post over 15 ins. in the ground. Land, mountainous. Soil, rocky, 3rd. and 4th. rate. Timber, cedar and pinon. Mountainous land on 79.66 chs. I destroy marks on old corner pertaining to secs. 5 and 6.

July 31, 1909.

## SUBDIVISIONS OF T. 34 S.R. 18 W.

## GENERAL DESCRIPTION.

This township lies in "Escalante Valley" and is practically level throughout with the exception of the northwestern portion which is mountainous.

The soil of the valley is a rich black loam, capable of producing crops with irrigation, and is now covered with a sparse growth of low undergrowth and grasses making it an excellent range for stock.

The mountainous portion is rocky and broken, has a growth of scattering cedar and pinon timber and grasses.

There is no water in this township.

The San Pedro, Los Angeles and Salt Lake Railroad crosses this township.

There are no settlers in this township.

There are no indications of mineral, oil, oil wells, oil springs or seeps on this township.

*Frank T. Roberts*  
U.S. Deputy Surveyor

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**Page**

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by \_\_\_\_\_

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_

showing the respective capacities in which they acted:

For list of names and final oath of assistants see book "Z" <sup>15</sup>, Chairman.

T. 34 S., R. 12 W. \_\_\_\_\_, Chairman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted \_\_\_\_\_

....., United States Deputy Surveyor, in surveying all those parts or portions of the \_\_\_\_\_

....., of the \_\_\_\_\_

....., meridian, ..... of ..... which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for \_\_\_\_\_

....., Chairman.

....., Chairman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

Subscribed and sworn to before me this \_\_\_\_\_

day of \_\_\_\_\_, 190 \_\_\_\_\_



## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..... United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for ..... bearing date of the ..... day of ..... 190 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ..... the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oath of deputy see book "Z" T. 34 S., R. 12 W. <sup>15</sup>

..... of the ..... meridian, in the ..... of ..... which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said ..... and sworn to before me }  
this ..... day of ..... 190 }

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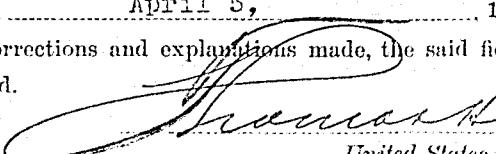
## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

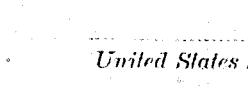
Salt Lake City, Utah, April 21, 1910

The foregoing field notes of the survey of ..... the Subdivisional lines of Township No. 34 South, Range No. 12 West of the Salt Lake Base and Meridian, Utah,

executed by ..... Frank T. Roberts ..... under his contract No. 313 ..... dated April 5, ..... 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

  
Frank T. Roberts  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

  
United States Surveyor General